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FEATURES OF THE MANUFACTURE OF PRIORITY AND IN-DEMAND CLOTHING WITHIN THE FRAMEWORK OF THE FORMED TORUS. MESSAGE 1

Abstract: In the article, the authors, based on their research, formulated the so-called "recipes" for creating conditions under which the clothing enterprises of the regions of the Southern Federal District and the North Caucasus Federal District would be able to produce competitive and popular products. Such a solution is possible if the heads of enterprises and regional branches of government in these regions combine their efforts through the use of innovative technological processes based on universal and multifunctional equipment to provide production with mobility, flexibility and the ability to maneuver the price of products that will be in demand not only in domestic markets with unstable demand, but also to be in demand abroad.

Key words: quality, preferences, demand, competitiveness, market, profit, demand, buyer, manufacturer, financial stability, sustainable TEP, priority, assortment policy, economic policy.

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Introduction

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The general weakening of the Russian light industry as a result of the collapse of production in the early 1990s and the simultaneous growth of the market due to the massive influx of cheap imports, which still prevails at the moment, determine for the existing domestic enterprises of the Southern and North Caucasian Federal Districts the relevance of the problem of forming a competitive assortment of children's clothing, which leads to the development of recommendations for the development of an optimal

strategy for the production of products in demand by the population of these regions.

In the light of the current foreign policy situation, due to the influence of economic sanctions imposed by many developed countries against Russia, the issues of increasing the competitiveness of Russian products to ensure reasonable import substitution, as well as to realize opportunities for the development of their own productions, are of particular importance.

The object of this study is the processes of developing solutions that ensure the release of modern



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demanded products. The subject of the study is clothing for children of the preschool age group.

The purpose of the research is to find opportunities to increase the competitiveness of children's clothing produced in the regions of the Southern Federal District and the North Caucasus Federal District. To achieve this goal, the following tasks are supposed to be solved:

- studying the possibilities of filling the Russian market with children's clothing of a domestic manufacturer and comparing them with the current directions for the implementation of the Strategy for the Development of Light Industry;
- assessment of the needs of the regional markets of the Southern Federal District and the North Caucasus Federal District to meet the demand for Russian-made products;
- study of the features that influence the formation of the assortment of children's clothing and the solution of issues of demand and sale of clothing for children, as well as the requirements for children's clothing;
- development of effective recommendations for the formation of a popular assortment of clothing for children, taking into account the identified features;
- development of proposals for increasing the flexibility of technological processes at enterprises.

The theoretical and practical significance of the research is determined by: segmentation of the consumer market for children's clothing in the Southern Federal District and the North Caucasus Federal District; identification of criteria that determine the quality of children's clothing in the eyes of consumers in the regions of the Southern Federal District and the North Caucasus Federal District; determination of the features of the product range and the parameters that determine the demand for it; a system for forming an assortment of children's clothing, which can become the basis for the assortment policy of children's clothing manufacturers in the Southern Federal District and the North Caucasus Federal District: conditions for the small and medium-sized development of manufacturers of children's clothing in the South.

The research was based on an integrated systematic approach to solving problems in the field of developing a competitive range of clothing intended for children of the preschool age group using the capabilities of modern information technologies. In the course of the research, the method of deductive assessment of the state of the economy and the work of light industry in the regions under consideration was used, as well as the method of questioning to take into account the opinions of consumers when predicting the range.

In a growing market dominated by imported products of stable demand for modern Russian enterprises of the Southern and North Caucasian Federal Districts, the problems of forming a competitive assortment of children's clothing based on marketing information and studying regional characteristics of consumer demand are relevant. Managing the competitiveness of products is associated with frequent changes in the range and the increased influence of regional socio-economic factors, its increase is possible only through the development of new models based on constantly updated marketing information and in-depth study of the preferences of specific customer groups, accelerating the process of changing the range while maintaining or improving efficiency production system. Manufacturers need to move away from price competition.

A competent assortment policy is needed for the production of competitive children's clothing, taking into account the factors affecting its consumer demand:

- compliance with the main fashion trends,
- take into account the economic, social and climatic features of the regions of the Southern Federal District and the North Caucasus Federal District:
 - application of innovative materials;
- if possible, create a basis for a wealthy consumer to meet his demand for higher quality clothing.

The formation of a range of children's clothing is a set of issues related to specific products, their individual series, with the definition of the relationship between "old" and "new" goods, single-piece and mass-produced goods, "high-tech" and "ordinary" goods, embodied goods and production methods. When forming the assortment, there are problems of prices, quality, guarantees, service, whether the manufacturer is going to play the role of a leader in the creation of fundamentally new types of products or is forced to follow other manufacturers.

The formation of the assortment is preceded by the development of an assortment concept by the enterprise, which is a directed construction of the optimal assortment structure, product offer, while on the one hand, the consumer requirements of certain groups (market segments) are taken as the basis, and on the other hand, the need to ensure the most efficient use of raw materials by the enterprise., technological, financial and other resources in order to produce products at low cost.

The assortment concept is expressed as a system of indicators characterizing the possibilities for the optimal development of the production assortment of a given type of goods. These indicators include: a variety of types and varieties of goods (taking into account the typology of consumers); the level and frequency of updating the assortment; the level and ratio of prices for goods of this type, etc.

The system for forming an assortment of children's clothing includes the following main points:



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- determination of the current and prospective needs of buyers, analysis of the characteristics of consumer behavior in the relevant market;
- assessment of existing analogues of competitors;
- a critical assessment of products manufactured by the enterprise in the same range from the position of the consumer;
- deciding which products should be added to the assortment and which should be excluded from it due to changes in the level of competitiveness;
- consideration of proposals for the creation of new product samples, improvement of existing ones;
- development of specifications for new or improved models in accordance with customer requirements;
- study of the possibilities of production of new or improved models, including questions of prices, cost and profitability;
- carrying out tests taking into account possible use in order to determine their acceptability in terms of the main indicators;
- development of special recommendations for the production departments of the enterprise regarding quality, style, price, name, packaging, service, etc. in accordance with the results of the tests carried out, confirming the acceptability of the product characteristics or predetermining the need to change them:
 - Evaluation and revision of the entire range.

Of particular importance in such a situation is the role played by certain positions of the assortment. For this, the products can be classified into the following groups:

- the main group of goods (which bring the main profit and are in the growth stage);
- supporting group of products (products that stabilize sales revenue and are in the stage of maturity);
- a strategic group of goods (goods designed to ensure the future profit of the company);
- tactical group of goods (products designed to stimulate sales of the main product group and are in the stage of growth and maturity);
- a group of products under development (products that are not present on the market, but ready to enter the market);
- goods leaving the market (which do not make a profit and they must be removed from production, withdrawn from the market).

After that, it is necessary to determine the share of each group in the total volume of products, which makes it possible to evaluate the existing assortment set at the enterprise and, correlating it with the profit received, assess the correctness of the assortment planning, its balance. For a stable position of the enterprise in the assortment structure, the main and supporting groups of goods must be at least 70%. In addition, not always an increase in the volume of

goods of groups that bring the main income will increase the profits of the enterprise. Here it is important to pay attention to the balance of unsold goods (what increase it will give and the possibility of its further sale).

Care must be taken to ensure that the range of children's clothing offered does not include too many product items. For the majority of Russian enterprises, the main reserve for optimizing the assortment is still based on a significant reduction in the assortment range. Too large assortment has a bad effect on economic indicators - there are many positions that, in terms of sales, cannot even reach the breakeven level. As a result, the overall profitability falls sharply. Only the exclusion of unprofitable and low-profit items from the assortment can give production an increase in overall profitability up to 50%. In addition, a large assortment dissipates the strength of the enterprise, makes it difficult to competently offer goods to customers, and disperses the attention of end consumers.

The research data of psychologists indicate that the average person is capable of simultaneously perceiving no more than 5 - 7 (sometimes up to 9) semantic constructive solutions. Thus, a person, making a choice, first selects these same 5-7 options based on the same number of criteria. If the seller offers too many selection criteria, the buyer begins to experience discomfort and independently weeds out criteria that are insignificant, from his point of view, which often leads to the cancellation of the purchase or to the choice of an outdated (familiar) model. From the buyer's point of view, to ensure a calm choice of perceptible options, the assortment should consist of no more than 5 - 7 groups of 5 - 7 items, i.e. the entire assortment from the point of view of perception should optimally consist of 25 - 50 items.

It is generally accepted that the buyer needs a wide range. This widest range is often referred to even as a competitive advantage. But in reality, it turns out that for a manufacturer, a wide range of products is hundreds of product items, and for a consumer, 7 items are already more than enough. Consequently, the consumer does not need a wide assortment at all, but the variety necessary for him.

An important feature that influences the formation of an assortment of children's clothing by an enterprise is market segmentation, i.e., activities to identify potential consumer groups for specific types of goods. Segmentation focuses on the differences in the behavior of different types of buyers in their respective markets. At the same time, the target segment is understood as a homogeneous typical group of buyers with similar needs and habits in relation to certain types of goods. The result of segmentation is the specification of types of consumers in a given market. For enterprises, customer segmentation is the basis for adjusting the



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existing assortment structure or for developing new models. Besides,

The choice of the optimal range of clothing for children, most in demand by the population, meeting the current fashion and quality requirements adopted on the international market, is a necessary condition for the effective operation of the enterprise. The formation of a range of children's clothing, taking into account its competitiveness, is a process carried out taking into account the analysis of the existing market, as well as taking into account the forecasting of trends in the social, economic and industrial fields.

The formation of the assortment is preceded by the development of an assortment concept by the enterprise, i.e., the directed construction of the optimal structure of manufactured products, while on the one hand, the need to ensure the most efficient use of raw materials, technological, financial and other resources by the enterprise in order to produce products with low costs, and on the other hand, meeting the requirements of certain consumer groups, taking into account their characteristics and capabilities.

The assortment policy for the creation and production of competitive children's clothing, taking into account current marketing approaches, is based on a group of principles based on an understanding of the need to develop only what the consumer needs. Even when developing products that have no analogues, while having only potential demand, it is necessary to carry out a set of measures to determine the needs for it:

- produce test batches, organize meetings with private and public consumers;
- create a variety of assortment within the framework of product-differentiated marketing;
- before the introduction of the model into production, the market segment for which it is intended within the framework of target marketing must be determined;
- it is necessary to predict the properties of the product during operation.

Thus, the choice of assortment policy is considered as a component of the strategic planning process. The choice of strategy depends, first of all, on the resources of the enterprise - when developing an assortment, there is a high probability of dissipation of funds

Assortment planning and management is an integral part of marketing. Even well-thought-out sales and advertising plans will not be able to neutralize the consequences of mistakes made earlier

in assortment planning. The optimal assortment structure should ensure maximum profitability, on the one hand, and sufficient stability of economic and marketing indicators (in particular, sales volume), on the other hand.

Problems of demand and sale of clothes intended for children.

Main part

The existing state support measures are designed to ensure the financial stability of enterprises. However, manufacturers also need to make serious efforts to improve the quality of their products, because it is the availability of goods that are competitive in quality and cost that is the best stimulator of consumer demand. The range of children's clothing is shown in Figure 1.

In market conditions of management, an effective management system requires a rational organization of marketing activities, which largely determines the level of use of the means of production at the enterprise, the growth of labor productivity, the reduction in production costs, the increase in profits and profitability. This is due to the fact that marketing activity is not only the sale of finished products, but also the orientation of production to meet the effective demand of buyers and active work in the market to maintain and form demand for the company's products, and organize effective channels for the distribution and promotion of goods.

An effective tool for maintaining high demand for the products manufactured by the enterprise is marketing, the initial stage of which is the study of market opportunities and the assessment of financial investments. Marketing research gives the company an idea of the differences of customers in their needs, perceptions, preferences.

At the enterprise, the marketing service must closely monitor the dynamics of sales and profits in order to take appropriate measures in time. So, for example, with a decrease in the pace of sales, you need to think about new markets, adjusting the price of the manufactured assortment, and improving service. Every company needs a policy that should be based on an assessment of its real capabilities, so that any new samples of children's clothing brought to the market serve as its position and competitive advantage. As part of a product strategy, specialists determine market demands and ways to satisfy them, based on a study of consumer demand and its characteristics.



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Figure 1. Characteristics of the range of clothing for children

The activity of the garment enterprise is carried out in a constantly changing economic environment with one goal - to maximize profits. In a market economy, when prices and production volumes are dictated by the market, an enterprise always faces a choice of how many products to produce at the prevailing market price in order to obtain the desired profit. To properly plan a marketing strategy, you first need to analyze the current situation, understand your own resources, and then look for ways to achieve your goals. On the one hand, this is a thorough study of the market demand and needs, orientation of production to these requirements, on the other hand, an active influence on the market, on the formation of needs and consumer preferences.

To create a competitive advantage in terms of marketing, an enterprise must analyze the existing requests from potential consumers and determine what is of greatest importance to them. This also requires the use of a set of marketing techniques: branding, participation in industry exhibitions, the use of various advertising options, assortment policy. Equally important to maintaining the sustainable development of the children's clothing industry is to determine the economic life of the model and optimize the life of the product through rational pricing and the correct application of marketing techniques.

In addition, in order to avoid problems with implementation, the creation of new models in the design departments of the enterprise should be carried



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out after a preliminary study of the real market needs for these products. After all, as the experience of Russian enterprises shows, the main cause of the sales crisis is the inconsistency between the range of manufactured products and the structure of consumer demand. In most cases, domestic producers tend to sell what they produce rather than produce what can be sold. This is due to the fact that for most of them the problem of sales orientation is more relevant than marketing. This situation can be explained by the following reasons:

- commodity producers are forced to concentrate their efforts on the product, and not on the needs of consumers, as they have very limited investment opportunities;
- a wide product range is possible in the presence of flexible industries, the introduction of which is constrained by technological backwardness;
- in order for the production program to be determined by marketers, it is necessary not only to have flexible production, but also to have significant production reserves, including reserves of production capacities, financial resources, etc.;
- the possibility of using market equilibrium prices and the advantage of non-price methods of competition for domestic producers are limited by the lack of professional marketers;
- the relatively narrow planning horizons for our businessmen are determined by the still remaining economic and political instability of Russian society.

This also explains the price orientation of the business to maximize current profit, its concealment for taxation, and not to obtain a long-term effect from the market orientation of production.

The company takes care of its costs, developing measures to reduce them by improving equipment and technology, introducing new types of materials into production, constantly improving the quality of products - all this requires large financial costs, but, nevertheless, helps to increase the competitiveness of both individual types. products and the company as a whole. With the transition from a seller's market to a buyer's market, the competitiveness of an enterprise increasingly depends on how perfect and viable its marketing and sales are. Only knowing the true demand for specific types of children's clothing can allow businesses to provide an appropriate supply.

Demand, supply and prices are elements of the market mechanism. Production, in essence, is the link between supply and demand, which acts as a result of production activities and is a batch of children's clothing intended for sale, the price of which must be sufficient to reimburse all costs (fixed and variable) for its production, management, implementation, and ensure an acceptable return on investment.

Consumer demand acts as the main factor influencing the formation of the assortment, which, in turn, is aimed at maximizing the expansion and satisfaction of the demand of the population.

Demand factors include:

- Comparative competitive advantages (the product must have distinct features or distinct advantages in comparison with analogues, products or services of competitors existing on the market);
- social orientation (it is necessary that the product fits into the existing social conditions, so that the proposed product corresponds to the current lifestyle and value system of the consumer);
- the ability to satisfy the consumer (the product must perform all the functions to meet the key needs and requests of the buyer).

The nature and possibilities of mutual adjustment of supply and demand are determined by the ability of these factors of the market mechanism to influence changes in the price level of retail goods and commodity groups. The quantitative side of this dependence is expressed by the concept of price elasticity of supply and demand, which is understood as the degree of the corresponding response of supply and demand to a relative change in the level of the market price.

Increasing the competitiveness of manufactured children's clothing is possible only through the development of new models based on marketing information and in-depth study of the preferences of specific groups of buyers, accelerating the process of changing the assortment while maintaining or increasing the efficiency of the production system.

If the business is to be successful in the buyer's market, it must conduct business in such a way that it does not depend on the sale of what it can make, but on the production of what it can sell at a profit. Under these conditions, it is necessary to manage the enterprise, focusing on the market, and not on the product. At the center of this way of thinking is the customer with his desires and expectations, which should be satisfied as fully as possible.

Today, a light industry enterprise, striving not only to survive, but also to develop, requires the ability not only to competently exploit the available technologies, but, first of all, to actively position itself in the market, delivering high-quality products that meet the requirements, requests and expectations of consumers in a short time. minimum price. In other words, at the present time, the one who will quickly launch products on the market that most fully meets the requirements of consumers, while ensuring the minimum cost of its production, will "survive" at the present time. To do this, the company needs:

- understand both current and future customer preferences and be able to develop products that meet these preferences;
- to ensure the adjustment of technological processes of production, guaranteeing their minimum cost by identifying and eliminating all types of costs that do not bring product value;
- Bring your products to market ahead of your competitors.



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The implementation of these tasks will depend on how smoothly and efficiently all departments will work at the enterprise. This can be achieved through a quality management approach according to the international standard ISO 9000:2015:

- determination of a set of processes or activities that ensure the production of products with quality characteristics that meet the requirements, requests and expectations of consumers;
- establishing a clear and understandable interaction between the processes;
- definition of quality objectives at the level of the enterprise and departments, providing an understanding of the results that must be achieved by departments, and which ensure the achievement of the overall goals of the enterprise;
 - planning resources needed to achieve goals;
- determination of procedures that ensure the performance of work in departments in the most efficient way;
- measuring the results and comparing them with the set goals;
- analyzing and deciding what needs to be improved within each department.

The implementation of these actions will make it possible to form an enterprise management system that focuses it on the production of products that meet the requirements, demands and expectations of consumers in terms of their characteristics and adjusts all types of activities related to ensuring production to an efficiency indicator, providing:

- building a system for identifying cost sources and developing adequate measures to reduce them;
- formation of reliable data demonstrating the effectiveness of the use of invested investments, which can help attract new investors;
- reducing the cost of production, which makes it possible to reduce the price, expand the market and increase production volumes;
- cost reduction, mainly associated with a reduction in the amount of scrap and other types of waste, which has a positive effect on such performance indicators of the enterprise as the impact on the environment, the state of industrial safety; the image of a socially oriented enterprise is formed;
- a clear setting of goals and objectives for each employee, determining the result that should be obtained in the performance of work;
- determination of the resources needed to perform the work, and provision of resources;
- providing the knowledge and skills necessary to understand how the work should be done in order to ensure its maximum efficiency;
- measuring the results of work at the level of employees, departments and the organization as a whole and comparing the results with goals;
- analysis of the results and adequate response to them through a system of corrective and preventive actions.

As world practice shows, the ability to implement these processes at the level of top management creates the conditions necessary for the formation of a competitive enterprise, ensuring the economic stability of enterprises.

In recent years, researchers have noted a growing trend in consumer preferences towards the quality, availability and safety of products for children, and yet relatively recently, the main guideline for most buyers was the price. Thus, one can judge the growth of the culture of consumption along with the growth of incomes of the population, which naturally leads to an increase in demand for branded products as of better quality in the eyes of parents.

Based on this, large manufacturers of children's clothing in the Southern Federal District and the North Caucasus Federal District should start developing lines of high-quality clothing in a more expensive segment under their own brand. Demand for such products will be stable, but so far only in regional centers and other developed cities. This will be facilitated by the growing interest and confidence of consumers in domestic products from year to year, due to its compliance with much more stringent regulatory requirements for the manufacture of children's things and, as a result, higher quality compared to many imported goods, which often turn out to be extremely harmful to the health of children and inappropriate for climatic conditions. For the same reasons, many Russian manufacturers are increasingly competing with foreign ones in the middle price segment,

Another argument in favor of the development of Russian brands is the stable development of modern civilized trade formats, where, as a rule, original products of a certain price category and quality level are sold. As mentioned above, the well-being of the population, its consumer culture is growing, which in the near future will attract consumers to well-equipped stores, children's centers, etc., and not to open markets, fairs, etc. At the same time, increasing the purchasing power of the population of the regions against the backdrop of saturation of the markets of the largest cities, it allows us to talk about the future development of the entire market of children's goods, mainly due to regional markets.

E-commerce is becoming increasingly popular as a powerful, and most importantly, consumer-friendly means of developing product recognition. The audience of Internet users and their trust in this sales channel are growing, for many of them it is more convenient to buy things that do not require fitting (and it is difficult to make a mistake with children's sizes) on the Web, which significantly saves time and money.

Many manufacturers, not wanting to depend on the conditions of retailers, come to create their own mono-brand distribution networks that increase their own profitability. At the same time, the popularity of developing such networks in the form of a franchise is



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growing, which, with sufficient brand awareness, is a mutually beneficial event for both the franchisor and the franchisee. In this case, the main advantage of developing children's goods stores under a franchise is the wide distribution of the brand with a certain minimization of the risks and costs of opening stores. There is a reduction in costs, profit pooling, organized logistics, a single circle of professionals of different levels, as well as common advertising budgets.

Thus, there is an increase in market diversification: more and more non-specialized retail chains include groups of goods for children in their assortment. The struggle for the consumer is intensifying: loyalty programs are expanding, segmentation of the assortment matrix is more often manifested in favor of popular goods and, in parallel, a cheaper basic assortment, more attention is paid to the location and format of the store, its marketing support. When developing the assortment, interior, choosing colors and equipment for the store, the interests of both children of different age groups and their parents are taken into account, preference is given to the harmonious design and design of the trading floor, and the organization of a special play

Experts note a possible increase in the number of children in the coming years or a slight decrease in growth. Priority segments where a high growth of domestic production is likely include: clothes for newborns, functional and bed linen, hosiery, knitwear, as well as school uniforms.

Analysis of the requirements for children's clothing.

In market conditions, the interests of the seller and the buyer are directly opposite: one is characterized by the desire to make a profit, the other is to save on direct costs, but there is always a common point of contact in their relationship, called the quality of the goods. For a conscientious seller, especially if he represents the interests of the manufacturer, the quality of the product determines its reputation in the market, while the buyer, naturally, tends to maximize the utility of the purchased product, largely due to its quality. Thus, the quality of the goods is the core of the normal interaction between the seller and the buyer, informing their relationship of trust and guaranteeing the mutual benefit of these relations.

For manufacturers, the catchphrase: "The future in which there is nothing to do without quality has already arrived" best reflects the importance of timely response to changes in market conditions and adequacy in the placement of accents within quality relationships. Even large investments may not save the enterprise if it cannot ensure the competitiveness of its products, the basis of which is quality. It is quality that consumers prefer when choosing products, it is also one of the most important criteria for the functioning of an enterprise in a relatively saturated market.

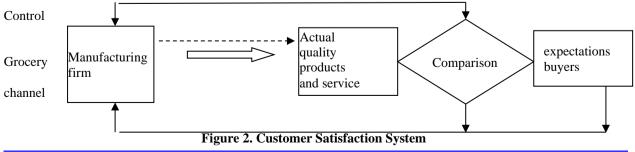
The situation in the market of light industry goods is characterized by the transfer of "power" into the hands of consumers. Namely, consumers determine the "winners" in the fierce competition with their choice.

The condition for the consumer to choose a product in a large assortment offered on the market is the coincidence of its technical parameters with the conditional characteristics of the forecasted demand. From this point of view, the enterprise management strategy should be built on the principle of a "tracking system" with feedback, i.e. it should provide consumers with products that meet their specific requirements for quality and related service when it is sold, all the while monitoring the degree of such satisfaction (Figure 2).

Tracking the quality of goods and related services consists of two stages:

- study through marketing of consumer expectations in the quality of products and services for its promotion; based on this information, functional specifications for new products and service quality are determined, which will depend on the ability to determine customer expectations and the ability to adapt production technologies to changing customer expectations;
- 2) periodic "measurement" of the mismatch between the actual and expected level of product quality and related services; in accordance with the magnitude of the mismatch, the activity of the enterprise should be aimed at developing control actions on organizational and technological units in order to reduce the discrepancy and introduce new methods for assessing quality parameters.

Feedback for correction and improvement





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Ensuring the quality of children's clothing includes planning and conducting a series of activities to create conditions for the production of products that meet consumer requirements. When implementing these activities, the following are taken into account:

- factors influencing the formation of the quality of goods (study of the goods market, development of requirements for goods, quality of raw materials and materials, quality of design and engineering, manufacturing quality, quality of goods marking);
- factors that preserve the quality of goods (packaging, conditions of transportation and storage, sale and consumption (operation), technical assistance in maintenance).

The chemical composition and structure of the initial substances and materials predetermine all the basic properties of goods, divided by nature into physical, chemical, mechanical, biological. Taking into account this factor, all the others are formed: design, technology, etc.

The starting materials are simple and complex substances, characterized by an invariable chemical composition and certain properties. The indicators of these properties are density, temperature constants, spectral characteristics, etc., which form the basis for the identification of goods and various types of examination.

There is a certain functional relationship between the amount of an element or chemical compound and the measured physical quantity, which is used to directly characterize the consumer value of a material or product. The standards for the content of these substances are specified in the relevant regulatory documents.

An important factor is the influence of the components of the starting substances, in particular the functional groups that make up the molecules of the starting substances, namely:

- hydroxyl group (–OH) in the composition of cellulose fibers (cotton, linen) causes high hygroscopicity of 8-12%, good ability to be dyed, dependence of properties on humidity;
- carboxyl group (-COOH), amino group (-NH2) in the composition of protein fibers (wool, silk, leather) provide good hygroscopicity 11 16%, good dyeability, low electrification, the ability to form a network structure and, as a result, provide high fiber elasticity;
- amide group (-NH) in the composition of polyamide fibers (nylon, enanth, anid) causes low hygroscopicity 4%, weak dependence of properties on humidity, mediocre dyeing, increased electrification;
- the ester group (-COO) in the composition of polyester (lavsan) and polyacrylonitrile (nitrone) fibers determines their zero hygroscopicity, poor dyeability, and high electrification.

Thus, knowledge of the chemical composition of raw materials makes it possible to predict the nature

of possible changes in finished products during storage and operation, as well as to identify goods.

Design is one of the most important factors that determine the quality of finished products. Design is the shape, size, method of connection and interaction of parts and assemblies, the relationship between individual elements, interchangeability, multi-operation and other features of the product. The design of children's clothing should best ensure functionality, ergonomics, aesthetics, reliability and safety in the use and operation of products.

Ergonomic properties - the ability of goods to create a feeling of convenience, comfort, the most complete satisfaction of needs in accordance with the anthropometric, physiological, psychological and psycho-physiological characteristics of the consumer. Ergonomic properties of children's clothing are divided into the following subgroups:

- anthropometric properties the ability of goods during operation to correspond to the greatest extent to the measured characteristics of the child's body;
- physiological properties the ability of goods to ensure the convenience of the functioning of individual organs or parts of the human body when they are used;
- hygienic properties are also associated with the influence on the living conditions of the human body and are divided into sorption (hygroscopicity, moisture loss), permeability properties (vapor, water, dust, light, air permeability), electrification (accumulation of static electricity charges), heatshielding properties (thermal conductivity, heat capacity);
- psychological properties the ability of goods to provide spiritual comfort to the consumer during operation, to correspond to his individual perception of the goods, which is especially important for young children;
- psychological and physiological properties the ability of goods to ensure compliance with the psychological and physiological capabilities and needs of the consumer, these properties comprehensively satisfy the psychological and physiological needs of a person, are mainly characterized by organoleptic indicators.

For children's clothing, aesthetic properties are especially important - the ability of a product to express social values in sensually perceived signs of form and satisfy the aesthetic needs of a person: informational expressiveness, rationality of form, integrity of the composition, perfection of production performance and stability of the presentation.

Aesthetic needs are always individual, therefore, it is quite difficult to ensure the aesthetic properties of goods and evaluate them, but at the same time it is of considerable interest, especially when making clothes for children.

The indicators of the aesthetic properties of children's clothing are: appearance, integrity of the



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composition, design, fashion, style, information expressiveness, perfection of production performance, etc.

Appearance is a complex indicator, including the shape, color, surface condition, sometimes integrity, as well as the presence of drawings and inscriptions. For the aesthetic perception of different children's clothing, the significance of the listed individual indicators of appearance is not the same and depends on the characteristics of the types of this clothing.

The integrity of the composition reflects the rational relationship of external features with the internal structure and implies subordination to the main elements of secondary ones, the unity of the style solution of all parts of the products.

ability Design is the of comprehensively satisfy aesthetic, ergonomic, social and other needs through their artistic design. Satisfaction of diverse needs and, first of all, aesthetic ones is achieved by a rational combination of appearance indicators (shape, color, surface condition, etc.) with dimensions and indicators of functional and ergonomic properties. So, the beautiful shape of the products should be combined with ease of use. The dimensions of the products as a whole or their individual parts must ensure the harmony of form and functionality.

Compliance with a certain style allows you to satisfy social and aesthetic needs with the help of a set of indicators of appearance, design features and details, which are determined by the general perception of the world for a particular segment of consumers. The style of goods, together with fashion, is an important means of creating the image of consumers and satisfying prestige needs as a kind of social needs.

Following fashion allows you to satisfy the aesthetic needs that have been formed or developed in a certain socio-cultural environment for a certain, limited period.

The fundamental features characterizing these properties are single indicators of appearance:

the shape of the products as a whole and / or its individual parts;

color and / or color scheme (this is especially true for clothes, shoes - the fashionable color of the season);

surface condition, including design details (for example, the presence of ruffles on dresses, blouses, accessories on shoes, etc.);

the presence or absence of individual functional details (for example, backs for shoes, sleeves, belts for clothes).

These fashion indicators are provided by selecting the most suitable types of raw materials, materials and developing a specific design.

Fashion is one of the important engines of scientific and technological progress, prompting fashion designers to create not only fashionable

goods, but also order the development of new materials and technologies.

The most important indicator of the quality of children's clothing is the safety of goods. Currently, in legislative acts, safety requirements are singled out as a special group as mandatory.

According to the Federal Law "On Technical Regulation", "the safety of products and related processes of production, operation, storage, transportation, sale and disposal is a state in which there is no unacceptable risk associated with causing harm to the life or health of citizens, property of individuals or legal entities. persons, state or municipal property, environment, life or health of animals and plants".

With regard to the quality of consumer goods, safety can be defined as the absence of an unacceptable risk to the life, health and property of consumers during the operation or consumption of goods. Unlike other consumer properties, the deterioration or loss of which leads to loss of functional or social purpose, non-compliance with the permissible level of safety indicators transfers products into the category of dangerous, subject only to destruction - on the contrary, products that have lost other consumer properties are classified as conditionally suitable and may be reworked. In addition, the lost properties of the product can be restored after the appropriate elimination of defects, so that it can be used for its intended purpose.

According to TR TS 007/2011, biological safety is the state of a product in which there is no unacceptable risk associated with harm to the health or life of the user due to a mismatch of microbiological, toxicological, physical and physicochemical properties with the established requirements; chemical safety - the state of the product, in which there is no unacceptable risk associated with harm to the health or life of the user due to the excess concentration of chemicals harmful to the health of the user.

Compliance with chemical safety is especially important for clothes of the 1st layer that are in direct contact with the skin, since the ingress of dangerous substances into a child's fragile body can cause serious harm to health: cause allergies, metabolic disorders, sleep, the appearance of disorders of the nervous and cardiovascular systems, pain and other symptoms. Exceeding the MPC of toxic elements can cause poisoning of varying severity, sometimes even fatal.

Compliance of products for children and adolescents with TR CU 007/2011 is ensured by the fulfillment of its safety requirements directly or by the fulfillment of the requirements of standardization documents included in the List of documents in the field of standardization, as a result of which, on a voluntary basis, compliance with the requirements of this technical regulation is ensured.



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Ensuring the competitiveness of children's clothing in the domestic market and its promotion in the external market is impossible without the production of high-quality products that meet safety requirements. Given this, enterprises need to implement a quality management system (QMS), which should be systematically developed and supplemented over time. According to the concept of the ISO 9000:2015 standard, the combination of its various elements contributes to the effective management of production and the production of quality products at minimal cost. This, in particular, is the philosophy of the TQM (Total Quality Management) concept and, as a result, the high efficiency of the quality system at the enterprise. Under these conditions, the advantage will be given to the enterprise that can offer consumers the best quality at a lower price.

The QMS should ensure both the conformity of products to consumer requirements and the guaranteed identification and elimination of deficiencies in production processes that affect quality, i.e. provide the highest probability of the absence of defects.

The structure of the assortment of children's clothing is characterized by a significant variety in purpose, materials used, manufacturing technology, types, shape, cut, colors, finishes, etc., which is due to the peculiarities of the physical, psychological and physiological development of children at different ages.

Children's clothing is classified according to various criteria. A common classification is according to the following age groups:

clothes for children of the infant group - from birth to 1 year;

nursery group - 1 - 3 years; preschool group - 3 - 6 years; junior school group - 7 - 11 years; senior school group (teenage) - 12 - 15 years; youth group - 16 - 17 years. Other features of the classification of children's clothing are shown in Figure 2.

Based on the results of the analysis of the previously listed features of the formation of an assortment of children's clothing for consumers in the regions of the Southern Federal District and the North Caucasus Federal District, we have prepared some recommendations for developing an optimal strategy for the production of a sought-after and competitive assortment to revive demand for products of existing small or medium-sized industries, the number of which prevails in these regions , which cannot be said

about the volumes of their products in comparison with the small number of large industries, with which they are not able to compete at the moment.

The climatic features of the two neighboring federal districts - the Southern and North Caucasus are almost identical: most of the year in these regions there are positive air temperatures with an average annual - plus 6.5 ° C. The mild climate determines the predominance of demand for the spring-autumn and summer assortment of clothing, which allows developing enterprises to focus primarily on the production of lightweight clothing. Therefore, taking into account the seasonality factor, as an example of the assortment in demand on this market, we will form an assortment of summer, light, everyday clothes for children of the preschool age group (as one of the most numerous groups, since there is an increase in the birth rate, and children grow up quickly), which is easy can be scaled and modified

The task of studying the characteristics of consumer demand for children's clothing is the main one for improving the quality and competitiveness of products. First of all, it is necessary to establish by what criteria the buyer evaluates the quality, since he will try to purchase clothes with the most desirable set of properties for him.

To study the requirements for the quality of children's clothing, and the criteria that determine in the eyes of consumers the competitive position of children's clothing and its choice when buying, we conducted a survey of buyers living in the cities of the Rostov region. More than a hundred respondents (women aged 20 to 45) took part in the survey, the results of which are shown in the figure.

The most important criteria for the respondents when buying children's clothing are: convenience (23%), high quality (18.8%) and moderate price (15.38%), followed by: appearance (11.96%), low price (9 .4%), hygienic properties (6.84%), compliance with fashion trends (5.98%), company prestige (3.52%), advertising (2.56%) and warranty period (2.56%).

When developing or updating the assortment, enterprises should take into account not only their own capabilities, but also the presence of similar products on the market of competitors, as well as the preferences and capabilities of buyers in certain market segments. Table 1 provides information on the number of registered manufacturers of clothing for adults and clothing for children in the regions of the Southern Federal District and the North Caucasus Federal District.



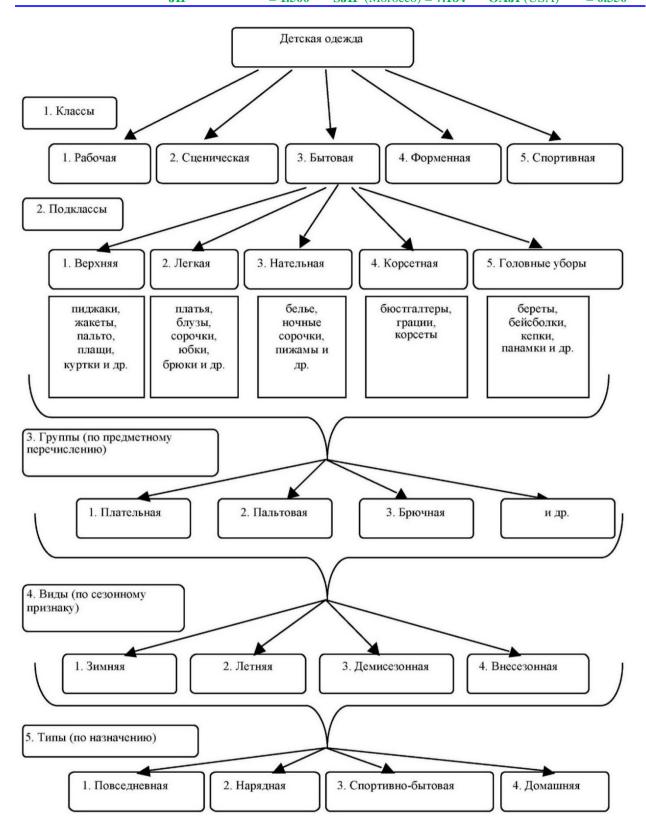


Figure 2. Classification of children's clothing

As can be seen from Table 1, there are significantly fewer manufacturers of children's clothing than adults in both districts, and their overall presence in this market, like the entire light industry,

is not able to cover the growing demand for legal Russian products, which in the Southern Federal District is satisfied by only 18.5%, and in the North Caucasus Federal District - only by 10.1%. One of the



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serious problems of the industry, hindering its development, is the high number of unregistered "underground" workshops that produce counterfeit goods. Therefore, due to strongly pronounced unfair competition, as well as the total predominance of imports for existing small and medium-sized enterprises in both districts, the main problem is the impossibility of producing competitive products that meet the needs of various social strata. After all, buyers differ from each other in a variety of ways: according to their needs, financial and other possibilities, location, buying views and buying habits. In this sense, the Southern and North Caucasian federal districts are of the greatest interest for market segmentation due to the homogeneity of the aggregate consumer, who equally reacts to the product and how it is evaluated for purchase.

It is also necessary to take into account the factor of solvency of buyers, based on which, you can focus on the ratio of consumer segments of this market. Table 1 provides information on the average income per person in the regions of the Southern Federal District and the North Caucasus Federal District in 2019-2022.

The income data presented in Table 2 makes it possible to judge their relatively low level relative to the national average for most regions of the Southern and North Caucasian Federal Districts. As a result of segmentation, it was also determined that the population of the two districts is unevenly distributed over the territory. When forming the assortment, attention should also be paid to the high percentage of rural residents in the population structure - in the aggregate in the Southern Federal District and the North Caucasus Federal District it is 42.5%. Taking into account the above results of the survey, one can judge the expediency of bringing products of the medium and medium-low price segment to these markets, especially for small and medium-sized businesses. However, in order to create demanded products, enterprises need not only to expand and update the range.

Table 1. Average per capita cash income in the subjects of the Southern Federal District and the North Caucasus Federal District

Territory	2019	2020	2021	2022
Russian Federation	25 928	27 767	30 467	30 738
Southern Federal District:	21 842	24 328	25 459	26 519
Republic of Adygea	18 512	22 054	22 646	23 627
Republic of Kalmykia	11 311	12 398	14 230	14 758
Republic of Crimea	-	-	15 658	19 059
Krasnodar region	25 777	28 788	31 375	32 672
Astrakhan region	19 778	22 169	24 057	22 676
Volgograd region	17 590	19 056	21 719	21 465
Rostov region	20 995	23 355	26 558	27 228
Sevastopol	-	-	17 882	22 916
North Caucasian Federal District:	18 900	20 693	23 024	23 399
The Republic of Dagestan	21 717	23 423	26 738	28 348
The Republic of Ingushetia	13 821	14 346	14 713	15 106
Kabardino-Balkarian Republic	15 297	16 619	19 102	20487
Karachay-Cherkess Republic	14 664	16 109	17 268	16 937
Republic of North Ossetia-Alania	17 788	19 820	22003	21 964
Chechen Republic	17 188	19 788	22 917	22 451
Stavropol region	19 768	21 590	22 969	22 270

It is important to form an assortment policy for the manufacture of such an assortment of children's clothing in order to guarantee its demand and demand not only through pricing policy, but also providing consumers with comfort and preventing the occurrence of diseases and other ailments associated with design flaws, improper selection of materials and components. Unfortunately, today filling the market with imported products does not ensure the elimination of these problems, which is one of the reasons for the need to implement an import substitution policy in order to ensure the demand of consumers of these entities, namely, in such clothing that would satisfy them in all aspects, and allow manufacturers to to obtain stable technical and economic indicators with a guarantee of social protection of the population of these regions.

In summer, rather hot, mostly dry weather sets in in the Southern Federal District and the North Caucasus Federal District. Although the average

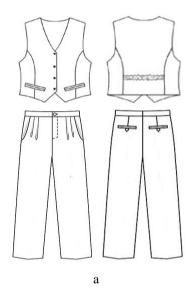


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monthly air temperature of the warmest month in the year of July is plus 23 °C, often for many days in places the temperature is above 35 °C and even above 40 °C. Often such weather is established already in May, it can last all of September. With this in mind, when developing an assortment, it is worth giving preference to clothes that are open, light, free, "breathable" - this should be facilitated by the use of modern high-quality materials in its manufacture, the basis of which should be natural fibers (cotton, linen, nettle, hemp, etc.) by adding the permitted share of

artificial fibers, as it decreases, the cost of the product will increase, while satisfying the needs of different social groups. Figure 3 shows the range of clothing for children that meets the specified requirements: T-shirts for boys and girls, T-shirts for boys and sundresses for girls, shorts for boys and summer semi-overalls for girls. Saturation, brightness, multicolor will emphasize the traditions, taste, mood of consumers.





b

Figure 3. Sketches of costumes: a - for boys; b - for girls

And the use of patchwork in the production of children's clothing through the use of waste materials significantly reduces the cost of its production and expands the color gamut, which ensures not only demand, but also a flexible price niche that guarantees its sale to consumers with different social status. Patchwork style clothes look beautiful, original and individual.

The body shape of boys and girls in infants and children of primary preschool age does not differ, therefore, for the development of small-scale production, it is advisable to produce clothes of a universal style (unisex) for this category of children, or to vary the colors and patterns of each model for girls and boys, which does not require large labor costs. The silhouette can be free, wide, shapeless, and the shape can be rectangular, square or oval; sleeves are set-in, raglan, cuffs are fastened with buttons, Velcro, zippers. Distinctive features indicating the gender of their owner may be completely absent.

Among the most promising types of children's clothing for production and sale in the Southern Federal District and the North Caucasus Federal District are vests and trousers (skirts) for preschoolers.

In this type of clothing, you can express the bright southern flavor in the best possible way, distinguish little fashionistas against the background of their peers, gradually instilling good taste in clothes, the ability to look after their appearance, since very soon they will have to go to first grade, where they will have to spend many hours at school. form requiring some care in handling. After the resumption of the institute of school uniforms in Russia, it became clear that schools would become one of the largest customers of sewing enterprises, and so far there are not very many of them in the Southern Federal District and especially in the North Caucasian Federal District, it is worth taking the moment to develop your small production, starting with sewing clothes for preschoolers, and after successful consolidation in the market and the gradual accumulation of competencies with the simultaneous development of production move on to the production of school uniforms, after all, parents will certainly give preference in her choice to an already well-known company, from which, perhaps, they once purchased a suit for their child. Light industry is one of the industries for which the problem of adaptation in the face of fierce competition is especially relevant. The main direction of



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increasing the investment attractiveness of enterprises is their innovative development. The growth of investments in innovative development will allow introducing new advanced technologies into updating manufactured production, products, developing new sales markets and ensuring a constant increase in profitability and market value of the enterprise. But at the same time there should be implementation possibilities. The intensification of investment activity, in turn, contributes to the growth of the economy, new enterprises are created with the help of investments and, accordingly, Increasing the efficiency of innovation activity is the basis for building a competitive strategy for the development of industry in Russia, ensuring effective compliance of production volumes, quality and product range with the aggregate demand of consumers, increasing the national significance and image of the industry. This requires continuous scientific and technological development aimed at improving the technology of processing materials and semi-finished products to standardize the properties and reduce the resource intensity of light industry products, the development of innovative systems for the design and engineering of light industry products, the creation of innovative designs with improved consumer and economic properties, and the optimization of technological processes, through the automation of production.

The innovative approach of enterprises is based primarily on internal resources, but for effective and long-term development it requires integration with financial, economic, research Russian and international structures.

Possibilities of using innovative equipment for the production of popular and competitive clothing for children

In modern conditions of fierce competition between domestic and foreign brands with a predominance of the latter, the wide spread of various forms of unfair competition against the backdrop of a growing backlog of technologies used in most Russian industries from the most advanced progressive and successful can be considered only such a production that actively and dynamically responds to emerging challenges. The principle of "producing only what is needed, when needed, and as much as needed" requires enterprises to adapt to the conditions for the production of products in small batches with frequent changes in the assortment, that is, to the conditions of a large assortment of small-scale production. The efficiency of the enterprise, and in many respects the ability to survive in competition, depend on the ability in a short time and at minimal cost to adjust to the production of products in accordance fluctuations in demand. Great opportunities for this are opened by the development and implementation of flexible production systems.

Technological and organizational flexibility of production systems determines the variable potential of enterprises, their ability to promptly and adequately respond to changes in market conditions and acts as a mechanism for optimizing the structure of the technological system in order to reduce costs. Thus, the development of flexible technological processes for the production of children's clothing will ensure high efficiency in its multi-assortment production, which will lead to a sharp increase in demand for these products from the enterprises of the Southern Federal District and the North Caucasus Federal District.

The organization of a wide range of production will make it possible to turn some subsidized regions of the Southern Federal District and the North Caucasus Federal District into self-sustaining ones, increasing the level of income of the population, will become a prerequisite for creating new jobs, ensure the development of small businesses and support legal private entrepreneurial activity, and also create a basis for getting out of the shadow of a significant part of the real sector turnover economy in order to form the budget of the region, thus, the implementation of a set of measures to modernize Russian enterprises has both economic and political and social effects.

The main stage in the development of small and medium-sized enterprises should be to increase their technical level of production, ensure the introduction products. competitive innovative technologies, the replacement of certain types of imported products with domestic products, and subsequently their entry into the Russian and world markets. This requires measures to modernize and reconstruct existing production facilities and create new ones, strengthen internal control and introduce modern quality management systems, in the future certification of products and production facilities themselves, development of a dealer and distribution network, an active marketing policy, expansion of innovative activities.

The effectiveness of the use of flexible technological processes for the production of a frequently changing range of products in small volumes (including single products) is possible if universal multifunctional equipment and a higher level of worker skills are used.

Further, modern effective innovative means will be considered to ensure the high-performance production of competitive clothing for children.

At the stage of product design and production preparation, an important role is played by the use of a computer-aided design system (CAD), which significantly speeds up the process of creating fashionable and comfortable clothing models and calculating technological parameters of production based on the automation of complex technical and routine processes. Figure 4 shows an example of working in CAD Gemini Pattern Editor.



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CAD, as a rule, includes several modules: technical drawing 5, design, gradation of patterns, layout of patterns, automatic cutting. This system allows in a short time to create, develop and implement new product models, increase labor

productivity, and provide more precise control at all stages of production.

Together with CAD, automated spreading and cutting systems are used.

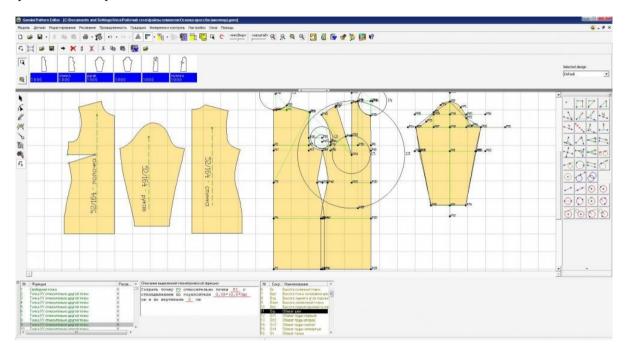


Figure 4. Pattern building window in CAD Gemini Pattern Editor

The GERBER Synchron 51 automatic spreader, shown in Figure 5, is designed for high-speed stretch-free fabric spreading with simultaneous edge alignment.

Model characteristics:

- lullaby feeding system;
- computer control;
- touch control device.



Figure 5. GERBER Synchron 51 spreader

The GERBER GTxL automated cutting machine, shown in Figure 6, is designed for high-speed precision cutting.

Model characteristics:

- integrated vacuum system;

- the presence of a monitor displaying the layout during cutting, as well as the cutting sequence;
- displaying the parameters of the cutting system and their control;
 - conveyor cutting surface.



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Figure 6. Cutting machine GERBER GTxL

For small businesses, the use of combined cutting and spreading systems, such as inexpensive

Rexel UL-3 semi-automatic equipment, may be a more profitable solution (Figure 7).



Figure 7. Rexel UL-3 cutting and spreading machine

Cutting and spreading complexes are automatic and semi-automatic complexes of a new generation that facilitate and simplify the process of cutting. Their use in the sewing industry leads to an increase in productivity by reducing the loss of time for combining patterns during sewing, and they can be serviced by one operator who sets the specified parameters and loads a roll of fabric, monitors the state of the process.

The table shows the characteristics of the latest equipment, the use of which for sewing and wet-heat treatment of vests for girls of preschool age will allow in the shortest possible time to create high-quality unique products that are in demand on the market of the Southern Federal District and the North Caucasus Federal District. Particular attention is paid to wetheat treatment, as one of the determining factors for giving products an anatomically correct shape during manufacture.

The introduction of high-tech equipment complexes at domestic enterprises based on the recommendations proposed above will make it possible to create a product that is competitive not only in the domestic market of the regions of the Southern Federal District and the North Caucasus Federal District, but also in other local markets, including foreign ones. And if the requirements of Roskachestvo for the localization of production are met, then when the product meets the increased requirements of the Russian quality system, it can be awarded the Russian Quality Mark. And labeling products with this sign opens up new opportunities for both consumers and manufacturers. The consumer receives a clear benchmark that indicates the high quality of a particular product, as a result of which its sales are growing, which will be beneficial to the manufacturer, increasing its potential for import substitution, which also allows him to count on an



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influx of investments. The use of natural materials as an important factor in the growth of the competitiveness of children's clothing manufacturers.

Table 3. Equipment for tailoring and wet-heat treatment of vests for girls			
equipment identification	Characteristic		
1	2		
Duplication press Kannegiesser	the presence of a control panel with a device for self-diagnosis of duplication parameters and immediate reporting of deviations in the operation of the machine; transport system with special anti-adhesive conveyor belt		
Semi-automatic for grinding tucks on the chest PFAFF 3519-3-12	 allows you to perform a high-quality seam stitching tuck due to the sealing of the stitches at the end of the seam; the length and width of the tuck, depending on the height and size, is easily programmed; due to the fact that the part of the front is positioned with the front side up, when grinding the darts on products made of fabric in a strip and a cage, the accuracy of combining the fabric pattern is ensured 		
Semi-automatic valve turning DÜRKOPP 739-23-1	 allows you to create valve parts of various shapes, keep up with fashion changes; easy to program using a personal computer; the program is recorded on the TAGLOG chip and placed in the template; the machine reads the information and performs the work automatically; high quality is created by precise edge trimming and perfect fit 		
Semiautomatic machine for making side pockets DÜRKOPP 745-34	- double photoelectric element, which this machine is equipped with, recognizes the shape of the valve, the displacement of the seam, the position of the corner knives; - allows you to process different types of pockets: in a frame with a valve, in a frame without a valve; - the machine adjusts ergonomically to the worker, leaving the working area free to view, thereby increasing quality and productivity		



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Universal sewing machine for main seams DÜRKOPP 275-140342



- equipping this machine with a puller allows you to perform a high-quality seam in products from fabrics of various types and compositions

Press for ironing leaves Macpi



- the ironing press is equipped with leaf patterns of different sizes;
- the sides of the leaflet are ironed, a line is extruded along which the detail of the leaflet is tuned to a part of the front;
- high productivity and shape retention accuracy are the main advantages;
- easily adjustable depending on the type of fabric being processed by changing the pressure and amount of steam, pressing time

Carousel press for molding front parts Macpi



- allows you to easily create a form given by the design;
- equipped with a computer, which allows you to change the pressing parameters depending on the composition and type of fabric

Ironing press for bottom ironing Macpi



- eliminates a number of manual manipulations: drawing a chalky bottom line, sweeping the bottom hem, etc.;
- high performance;
- equipped with a computer that allows you to perform a high-quality technological operation in products from fabrics of various compositions

Armhole lining sewing machine DURKOPP 697-15155

- the column structure provides convenience of work on it;
- equipped with a thread trimmer and stitch release device, which is activated when sewing through the shoulder pad;



- it is possible to adjust the fit of both the upper and lower layers of the fabric

Finishing stitch machine AMF REECE 59/83



- high-quality finishing line, imitating a decorative hand stitch, relevant in modern fashion;
- easy adjustment of stitch length;
- different types of stitches: dotted, uniform, long/short

Equipped workplace for sewing on buttons PFAFF 3307-3/01B



- machines with electronic control for sewing on buttons with a displaced top and a deflecting needle bar;
- simple programming of a seam on the control panel in the Teach-in mode;
- sewing on buttons on a leg, without a leg and with a blind stitch with a tacking of the collar;
- free choice of leg wrapping operation

Press for finishing wet-heat treatment Macpi



- simultaneous pressing of the right and left shelves;
- equipped with a video computer;
- software management;
- high-performance;
- Equipped with precise pressure and steaming device

Table 4 shows the characteristics of high-tech equipment for the production of trousers for preschool boys.



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Table 4. Equipment for sewing trousers for boys

Table 4. Equipment for sewing trousers for boys			
equipment identification	Characteristic		
1	2		
Sewing machine for sewing tucks and folds on the belt DURKOPP 743-221	 stitching darts on the back of the trousers; stitching darts-folds on the front of the halves of the trousers; precise quick adjustment of various depths of tucks and pleats; allows you to easily adapt the installation to different requirements 		
Semi-automatic for turning the toe of the trouser belt DURKOPP 739-23-1	- allows you to create details of the toe of the belt of various shapes, is easily programmed using a personal computer, the program is recorded on the TAGLOG chip and placed in the template, the machine reads the information and performs the work automatically; - high productivity, high quality is created by precise edge trimming and perfect fit		
Semi-automatic overcasting section DURKOPP 1265-5	 - a semiautomatic device for overcasting of back and forward parts of trousers; - allows you to make a partial fit on the lining; - programming for overcasting complex fabrics 		
Special machine for finishing stitching on the belt of trousers DURKOPP 550-5-5-2	- especially for the operation of laying the finishing line along the belt of trousers; - accurately and evenly processes the belt; - large passage under the sewing foot; - ergonomic worktop allows free hand movement when moving the workpiece		
Special machine for stitching side and step seams	- the top and bottom conveyor works absolutely synchronously, even at high speed;		



DURKOPP 550-8-2/0

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- always smooth seams limiting ruler on the edge facilitates the positioning and advancement of the part, ensures first-class quality

Trouser fly and hem processing machine DURKOPP 550-2-1



- smooth seams;
- device for notches;
- specially for sewing on a hemmed codpiece and sewing on a bevel with a zipper, all operations are carried out, without additional retooling

Corsage to belt sewing machine DURKOPP 550-5-6



- double chain stitch;
- Equipped with corsage roll holder;
- plate for inserting belts;
- when processing the right and left belts there is no need for retooling

Machine for attaching a zipper to a codpiece DURKOPP 50-2-2



- ideally adjusts the endless zipper to the codpiece of the
- the equipment of the device guarantees the adjustment of the zipper without displacement;
- limiting ruler controls the width of the seam

Semi-automatic sewing trouser tape on the bottom of trousers

DURKOPP 1500/70-2

- two-needle, chain semiautomatic device;
- trouser tape is automatically guided, cut off at the end of the seam and then automatically retracted back to the beginning of the seam:
- programming the supply of trouser tape





Semi-automatic for fastening belt loops and corners of trouser pockets

DURKOPP 510-211



- all bartacking works with a sewing field size starting from 40×20 mm, used for 0.1 mm steps in length and width;
- 50 programmed standard bartacks;
- when changing the presser foot, the possibility of a curly bartack on the corners of the pockets

Semiautomatic button sewing DURKOPP 530-211



- double lockstitch; provides great opportunities for their application;
- processing of buttons with 2, 3, 4 and 6 holes and diameters from 8 to 30 mm is possible;
- the graphic display is serviceable and works without any additional programmer

Label sewing machine PFAFF 2438-6/03-980/32 AS



- automatic recognition of a label edge by means of a sensor;
- 15 programs with 15 corresponding seam sections;
- the possibility of automatic tuning of touch control on various materials;
- Stitch length adjustment using the BDF-S2 control panel

TYPICAL GC8000MD3

- universal automated machine;
- has the function of automatic thread trimming, backtacking, thread take-off and stitch adjustment



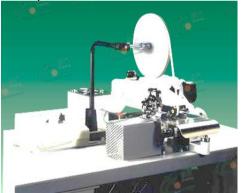
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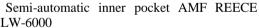


- a machine for hemming the bottom of trousers, a blind stitch
- Equally suitable for hemming light and medium weight

Single thread blind stitch machine for making belt loops STROBEL 103-258 MB



- supply of cushioning material by a belt conveyor together with the top material;
- cutting device of a given width of the belt loop;
- secret stitch;
- ironing in a steam device;
- belt loops without stitches visible from the outside.





- production of pockets in a frame on a lining;
- software control and graphic display;
- electronic adjustment of speed, position of corner knives, central knife, parameters of the performed pocket

The second key direction in increasing the competitiveness of summer clothing for children is the

use of materials in its production that provide maximum comfort when wearing it and safety. For an



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active child's body, these characteristics of summer clothing are the most important, especially in hot weather - after all, fabrics of light clothing that are close to the skin must have high air and vapor permeability and good hygroscopicity in order not to prevent the removal of carbon dioxide from under the clothes. gas, sweat and a number of other metabolic products emitted by the skin, and there should also be no release of unacceptable harmful substances from tissues.

For children of preschool age, it is permissible to use capro-viscose linen and linen made of cotton-lavsan yarn with a content of nylon and lavsan not more than 40%, as well as cotton linen in combination with a nylon textured elastic thread (not more than 23%) in clothes.

However, the most suitable materials for the production of children's clothing with acceptable hygienic characteristics are natural products. Cotton and linen fabrics, as a rule, have good hygienic properties, which is also important for maintaining the mechanisms of thermoregulation in children, since at this age they are still as formed as in adults, so children are more susceptible to overheating or hypothermia, which can lead to malfunctions in the work of the body, the development of certain diseases. In this regard, the most promising direction for improving the materials used is the use of organic materials.

Organic materials, or eco-materials (biomaterials), have become increasingly popular in recent years. This is due to the fact that no chemical additives and carcinogenic pesticides are used in their cultivation, which is confirmed by the presence of laboratory test certificates.

The most common eco-friendly materials include: cotton, linen and bamboo. So, organic cotton is even softer, provides maximum comfort due to its Ph-factor close to human. Moreover, this material has antibacterial properties, its breathability is about 10% higher than usual, its fibers are stronger, which increases the wear resistance of the material. Organic linen is a little less applicable in the manufacture of children's clothing due to its rigid structure. And the most common eco-friendly material has become bamboo, which has a number of such positive qualities as: silkiness, hypoallergenicity, high hygroscopicity, maintaining thermoregulation, and it also has antibacterial qualities and is very resistant to ultraviolet radiation, which is especially important in the summer season.

Another worthy representative of organic materials is ramie nettle fabric, which has a fairly high strength, many times greater than the strength of cotton. One of the aesthetic features of this fiber is its brilliance, which is not lost after washing or under the influence of the sun, but on the contrary, it becomes even more spectacular. Nettle is not prone to decay, which means that there is no need for serious chemical treatments, thereby classifying it as an

environmentally friendly fabric. The fiber does not cause allergies and skin irritations, does not contain toxins, herbicides and pesticides are also not used during cultivation. The fiber perfectly absorbs moisture, while the body "breathes" freely. In hot weather, ramie clothing is especially relevant: the fiber allows you to maintain an optimal climate for clothing and protects the skin from various inflammations.

Hemp is one of the most ancient types of crops used by man for the production of fabric due to its many positive properties: the most durable natural fiber, does not stretch, retaining the original shape of clothing, very soft textiles, becoming even softer over time, guaranteeing comfort and convenience of clothing, very high hygroscopicity and breathability. Also, hemp fibers have antibacterial and antifungal properties that naturally prevent decay and the development of parasitic fungi, so pesticides and herbicides are not used in the cultivation of hemp culture. The properties of hemp fibers have also been proven to reduce the effects of ultraviolet rays on the skin: the fabric is able to filter most of the spectrum of ultraviolet rays.

A significant limitation in the use of organic fabrics in the production of clothing for both children and adults is their high cost. That is why manufacturers seeking to conquer various price markets should rely on the exclusivity of such products, selling them to other large Russian regional markets, as well as abroad, which should have a positive effect on increasing the brand awareness of the manufacturer. To reduce the cost of individual product lines, it is necessary to use blended fabrics containing both organic and conventional fibers. To bring the price even closer to the market average, you can also use fabrics with the addition of artificial fibers, which will also allow you to indicate "made with organic" on the clothing label.

Thus, organic materials have a significant set of useful properties that can positively affect the health of a child when wearing clothes made with their use. Indeed, against the backdrop of the annual deterioration of the environmental situation, the use of synthetics of not the best quality in all household items surrounding a person, including clothing, it is no coincidence that a fashion for environmentally friendly products appeared: clothes, food, bedding, etc., and many parents seek to protect children from its harmful effects by purchasing products of the socalled "eco brands", and someone is simply an adherent of the concept of "being in trend". Therefore, the use of natural hypoallergenic materials in the production of children's clothing is characterized by high prospects for increasing the competitiveness of Russian industries.

The use of ecological technologies for the production of children's clothing guarantees the safety of its operation. Unfortunately, in pursuit of maximum



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profit, manufacturers often try to use cheap raw materials and materials, hiding defects behind a large number of finishing effects, thereby trying to sell a bad product in a beautiful package. Modern technological methods can "change the face" of a bad material, but cannot improve its poor performance properties. In addition, in the production of some effects, very aggressive chemical materials are used, which can harm the skin of a child. The basis of the ideology of Russian manufacturers of clothing for children should be a rule defining the requirement for choosing only the best raw materials for children's clothing, delicate and environmentally friendly processing methods.

An important parameter of the environmental friendliness of clothing is the use of modern anthropometric sizes of children when developing the design of a model. The use of outdated or foreign anthropometric data in the construction of patterns leads to incorrect and uncomfortable fit of clothes on modern Russian children. Carried out in accordance with the current SanPiN 2.4.7 / 1.1.1286-03 "Hygienic requirements for clothing for children, adolescents and adults", labeling products according to the main dimensional features - chest girth and height, can guarantee the correct selection of clothing.

Operating and newly created enterprises and firms in the South of Russia, using the proposed measures, will be able to produce competitive clothing for children in the required volume to meet the demand of various groups of the population with a certain level of income and social security. Economic justification for the use of innovative technologies for the production of popular children's clothing

The dynamics of the market development invariably shows the growing interest of consumer demand in the quality of goods. With all the economic, social and political costs, humanity is getting richer, but wealth is distributed unevenly. Finance, as before, is concentrated in certain regions, however, in the same way as new modern production. Analysts predict the course for the quality of goods confidently and everywhere: the mass consumer has realized the need to pay for the advantage of quality services and products.

Economists unequivocally state that the improvement in the quality of goods is not connected causally with an increase in price. Positive changes in the quality of goods require qualitative changes in engineering, technology, organization and management of production. Production must improve, but not become more costly.

The expansion of the market for domestic goods will help meet the effective demand of the population for various price groups of products, taking into account consumer preferences. However, the production of children's clothing is associated with a number of economic features that have a great influence on its organization. In conditions when the

production of children's clothing is scattered among many non-specialized enterprises and occupies a small share in production programs, the economic interest of clothing factories in increasing its output is not always achieved, since the production of this assortment often does not ensure the fulfillment of the technical and economic indicators of the plan. The low level of specialization in production hinders the growth in the production of children's clothing and gives rise to duplication of uniform models and styles, limits the possibilities of rational, economical use of fabrics, which helps to reduce costs and achieve the necessary profitability in the production of products for children. The conditions for reducing the cost of raw materials for the production of children's clothing, and at the same time for increasing labor productivity, are to a large extent achieved by specializing production and making fuller use of internal reserves.

To this end, the above recommendations for upgrading the equipment of enterprises producing clothes for children, in order to improve the technological process to increase its flexibility, can also be applied at enterprises engaged in tailoring men's clothing. The implementation of this proposal will significantly reduce the cost of creating a new production, eliminating the need for the construction (rent) of buildings, providing all the necessary communications, hiring the necessary staff of performers, equipping new workshops, creating design and technology departments, state registration of new production, etc. for production of children's clothing in affordable price niches.

Implementation of the planned transformations can be implemented using the mechanisms of state support, the main source of which is currently considered to be subsidizing leasing.

Leasing is a type of financial services, a form of lending for the acquisition of fixed assets by enterprises or high-value goods by individuals. The lessor undertakes to acquire ownership of the property determined by the lessee from the seller indicated by him and provide the lessee with this property for a fee for temporary possession and use. Most often, this is done for business purposes, but from January 1, 2022, this is not mandatory in Russia. The leasing agreement may provide that the choice of the seller and the acquired property is made by the lessor. The lessee may initially be the owner of the property.

Leasing allows you to apply accelerated depreciation, it is possible to redistribute the timing of VAT payment. In fact, leasing is a type of long-term lease of property with a subsequent right to purchase, which compares favorably with a traditional bank loan. The bank begins the process of obtaining a loan by reviewing the application, and most banks will definitely require the property already owned by the enterprise as collateral. The amount of the loan will depend on the value of the property. The bank evaluates the property of the enterprise not at market



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value, but at the one for which it will be possible to sell the pledge in the shortest possible time. Accordingly, the value of collateral will be greatly underestimated.

However, during leasing, the lessee receives the equipment it needs and begins to operate it, but at the same time it remains the property of the leasing company. At the same time, the lessee undertakes the obligation to gradually buy out new property from the company, i.e. like renting equipment. Therefore, in the case of leasing, collateral or an excellent credit reputation is not required - the equipment acquired under leasing remains the property of the lessor until the lessee pays for it in full. In addition, unlike banks that issue loans (especially to small businesses) for a period of about five years, leasing companies can significantly increase the repayment period. Depending on the purchase, companies allow themselves to expand the scope up to 10 years.

Leasing also provides the lessee with the opportunity to use the property in carrying out entrepreneurial activities and subsequently obtain ownership of it. Leasing agreements may provide for the accounting of property both on the balance sheet of the lessor and the lessee.

The buyer of equipment on credit has the opportunity to transfer the value of the property to the cost price through depreciation, however, interest on the loan accrued after receiving the property is not included in the cost of the property, therefore, cannot be transferred to the cost price.

Lessees, in the case of accounting for property on the balance sheet of the lessor, have the opportunity to include leasing payments in the cost price, which ensures the transfer of the cost of property to the cost price in a much shorter time compared to the purchase of equipment at the expense of borrowed funds.

This option, unlike the purchase, also allows you to include in the cost of interest on borrowed funds,

which are included in the amount of the lease payment. The leasing option, taking into account the property on the balance sheet of the lessee, also allows you to transfer the cost of equipment to the cost price through depreciation in a shorter period of time due to the use of a multiplying coefficient to the depreciation rate, as well as include the cost of interest on attracted funds in the cost price.

Funds provided by the Industrial Development Fund at a preferential rate of 5% per annum allow financing the necessary development technological work, without which it is impossible to produce innovative products. In addition, the mechanism of the fund hides a potential that has not yet been used, because the allocated funds can be considered not only as a tool for purchasing equipment. These funds, in fact, can become a down payment on leasing and other payments for the purchase of such equipment. Proper use of this mechanism will allow enterprises to increase the funds raised by 5-8 times.

In the cost of production of children's clothing, the largest share is the cost of raw materials and basic materials, and then wages and depreciation. The results of calculating the costs in the retail price of children's clothing are shown in Table 5.

In a dynamically changing market environment, the results of an enterprise's activities largely depend on the effective results of the production, sales, financial and marketing policies of the enterprise itself, which creates the basis for bankruptcy protection and a stable position in the domestic market.

The study of the costs of improvement in terms of consumer quality factors for each type of designed product will reduce the risks of losses associated with consumer dissatisfaction, these costs should be taken into account by manufacturers when forming a new range.

Table 5. Share of expenses in the retail price of children's clothing, %

Indicators	Minimum meaning	Maximum meaning	Average
Raw materials and basic materials minus returnable waste, by-products and by-products	14.2	36.6	23.1
The cost of the main type of raw material	8.1	32.7	19.2
The cost of other types of raw materials and basic materials	1.2	9.6	4.1
Return waste, by-products and related products (deductible)	0.01	1.4	0.3
Production costs, including selling expenses	15.7	30.9	24.3
Auxiliary materials for technological purposes	0.1	3.6	1.0
Fuel and energy, including water and steam for technological purposes	0.4	2.1	1.4
Costs for preparation and development of production	0.01	0.3	0.1



Impact	Factor:
Impact	ractor.

ISRA (India) = 6.317	SIS (USA) = 0.912	ICV (Poland)	= 6.630
ISI (Dubai, UAE) = 1.582	РИНЦ (Russia) = 3.939	PIF (India)	= 1.940
GIF (Australia) = 0.564	ESJI (KZ) = 8.771	IBI (India)	= 4.260
$\mathbf{JIF} = 1.500$	SJIF (Morocco) = 7.184	OAJI (USA)	= 0.350

Costs for the maintenance and operation of equipment	0.1	2.8	0.8
Salary with deductions for social needs	6.3	17.9	9.8
General business (general factory) expenses	1.5	10.4	5.2
General production (shop) expenses	0.7	7.6	3.9
Other operating expenses	0.1	3.2	0.7
Selling expenses	0.3	4.7	1.5
Total unit cost	9.9	56.2	44.3
Actual profit, loss	3.8	9.9	6.2
VAT	4.4	9.1	6.3
Other types of taxes	0.01	0.5	0.1
Payment for the delivery of products (goods) to customers, carried out by the enterprise	0.01	0.2	0.1

Features of the development of design and technical documentation for a women's suit, taking into account the age characteristics of the customer in small enterprises within the framework of the TOP.

The main direction in the development of the clothing industry implies continuous improvement in the quality and expansion of the range of garments, increasing the satisfaction of citizens with the quality of services and services, therefore, when creating clothes, the latest achievements of science and technology should be used, optimal creative compositional solutions should be chosen.

Every year in our country, the requirements for the quality and assortment of clothing, including clothing manufactured according to individual orders of the population, are increasing. The production of high-quality, fashionable clothes that correspond to the best international prototypes is unattainable without the use of advanced technology and technology at all stages of production, including design and modeling, which determine the future fate of a new clothing model.

Today's costume reflects the development of society, its main values, achievements and discoveries. The transformation of the costume is closely connected with the development of various forms of arts, techniques, technologies and any sphere of human work. Clothing for everyday wear is characterized by versatility and convenience. There are a huge number of variations in the style of clothing for everyday wear. Do not be afraid to show individuality. Casual style is perfect for peppy, young people who value comfort. The suit is rationally combined with business-style clothing, which has become softer and more feminine over time.

The designed suit is relevant, as it was created in a casual business style, which is characterized by some freedom, especially when compared with strict and boring office looks. The volume and structure of the youth clothing wardrobe change under the influence of a number of factors - gender and age differences, social status, average per capita income, place of residence, nature of work, leisure activities, etc. Consumers of this group steadily show a tendency not to expand, but to update the wardrobe. The main reason for updating the wardrobe is a change in fashion.

This suit was designed for women of the younger age group (up to 29 years old) who lead an active lifestyle, so it was important to take into account the trends and fashion trends, choose the silhouettes that are preferred for the customer and relevant from the point of view of modern fashion, cut, color scheme.

For the customer of this age group, in accordance with his desire, appearance, age, features of the figure, the purpose of the product, a suit made of bright yellow cotton denim was selected. This material is great for an active lifestyle. The selected color of the material is fully consistent with the appearance and color type of the customer and emphasizes all the existing advantages.

To achieve this goal in the course of the final qualification work, it is necessary to solve the following tasks:

- analyze fashion trends for the current and future periods;
 - develop design and technical documentation.

The need to perform design work lies in the use of CAD, since one of the most promising areas for increasing efficiency in the development of clothing is the use of CAD "Grace" (version 401)

This system allows you to develop clothing designs, create and perform gradation of patterns, perform layouts, calculate material consumption rates, determine the labor intensity of manufacturing products, and facilitates the implementation of many other stages of clothing design.

Aesthetic requirements



ISRA (India) = 6.317SIS (USA) = 0.912ICV (Poland) = 6.630**РИНЦ** (Russia) = **3.939 ISI** (Dubai, UAE) = **1.582** PIF (India) = 1.940IBI (India) = 4.260 **GIF** (Australia) = 0.564ESJI (KZ) = 8.771**SJIF** (Morocco) = **7.184** = 1.500 OAJI (USA) = 0.350

Aesthetic requirements for industrial products are the rationality of the form of the product and its relationship with the functional content of the product.

The aesthetic level of a modern costume is determined by the combination of factors in it: the novelty of the model and design, compliance with modern style and fashion, the perfection of the composition of the model, presentation. The aesthetic perception of clothing as a whole also depends on the accuracy of technological processing and finishing of all structural elements: the symmetry of the position of paired parts, the accuracy of finishing stitches, the quality of the lining, etc.

Color, constructive - decorative solution and style of models should be in harmony with each other, creating the integrity of the image.

Ergonomic requirements

Ergonomic requirements for clothing are associated with hygienic, anthropometric and psychophysiological characteristics of a person.

Hygienic requirements for the selected type of product characterize its compliance with sanitary and hygienic standards and recommendations that provide comfortable conditions for the microclimate of the underwear space.

Anthropometric requirements are the conformity of the design of clothing to the size (proportionality) and shape of the human body (balance).

Psychophysiological requirements are characterized by indicators of the conformity of clothing to the physiological properties and psychological characteristics of a person. Based on this, psychophysiological requirements are specified by the convenience of putting on and taking off clothes, the convenience of using individual elements of clothing and the mass of clothing.

Operational requirements (reliability)

Reliability determines the reliability, durability, maintainability of the product. Reliability includes the full period of wear until the moment when the product comes into a state of moral and physical unsuitability.

Technological requirements

- type of production: production of products according to the orders of the population;

Technical Proposal.

Analysis of the fashion direction for the current and future periods

The collection, systematization and analysis of information presented in specialized websites and electronic resources ELLE.RU, BAZAAR.RU and VOGUE.RU led to the conclusion that in 2023/2024 designers offer to experiment with silhouettes, volumes and decorative elements. So, they suggest actively using a trapezoid silhouette, also a fitted silhouette with accents on the hips and a fitted silhouette with accents on the shoulders. Couturiers also offer to include oval silhouette clothes in their images.

Sloping shoulders, large sleeves and a thin waist remain fashionable. Trendy are accents on the shoulders and a variety of cutouts.

The most edgy jackets this season are those with "bulging" shoulders, angular and pointed.

The waist line is in its place at Louis Vuitton, but at Her-mes it falls to the hips, and at Dior it rises under the chest.

If we talk about the actual elements and details, then we can distinguish the following: at the peak of fashion there was an open back, blankets, a cage, a low waist, all kinds of cutouts, fringe and "strings", top bandeau and bright colors also do not give up their positions. Suddenly, miniskirts have returned to fashion, but designers still advise against wearing tight and low-volume skirts, but recommend paying attention to free volume and A-silhouette.

In the current season, the following shades are the actual palette: lemon, lavender, the color of mint candy and clear sky. The white gamma this season is represented by a shade of airy meringue. Ideal examples are presented in the collections of Christopher Esber, Y/Project and Gabriela Hearst.

The list of colors unexpected for summer is headed by chocolate - rich dark, like Hermès and Ami. It looks great in the form of tight tops and formal suits that can be worn with a bra or even on a naked body. Another not the most familiar shade for the warm season is bright blue sapphire. Its best variations can be seen in the collections of Isabel Marant, Nina Ricci and Chanel. And finally, it is important to note the shade of pink peony - it was used by a record number of designers this season.

Based on the analysis of fashion trends, a trend board was compiled. A trend board is a small part of a portfolio, a sketchbook. It contains a selection of styles, silhouettes, ideas, trendy colors, trends, materials, color palettes, and more.

The concept of this trend board is to create a youth collection that is different from the usual gray and everyday clothes; a collection that sets you in a positive mood and evokes a lot of vivid emotions; adding color to workdays through street fashion, conveying the color and identity of the lineup.

Development of a sketch of the designed model

In order to identify the diversity and novelty of artistic design solutions of the designed range of products and further selection of the designed model, a search and analysis of analogue models was carried out.

Models - analogues are models of clothing of the same assortment group, selected within the same age group, for the same purpose, having a similar constructive basis (the same structural elements, segmentation, silhouette, cut), but differing in decorative elements, material, etc. As sources of information in the selection of models - analogues,



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samples of finished products, fashion magazines, catalogs of models were used. Models are selected taking into account the direction of fashion.

In the final qualifying work, three models are presented - analogues, which were developed on the same constructive basis: semi-adjacent silhouette, setin sleeves, but differ from each other in length, neck shape, bottom length. Sketches of models - analogs are presented in the form of sketches of a general view on a human figure with a clear drawing of all constructive and decorative elements.

The purpose of the analysis of models - analogues - is to obtain initial data for creating the most rational design based on the selection of all the positive qualities of previously developed models.

Based on the results of the analysis of the promising fashion direction and analogue models, a sketch of the designed model was developed.

Table 5 and Figure 8 present an analysis of models - analogues of a women's suit.

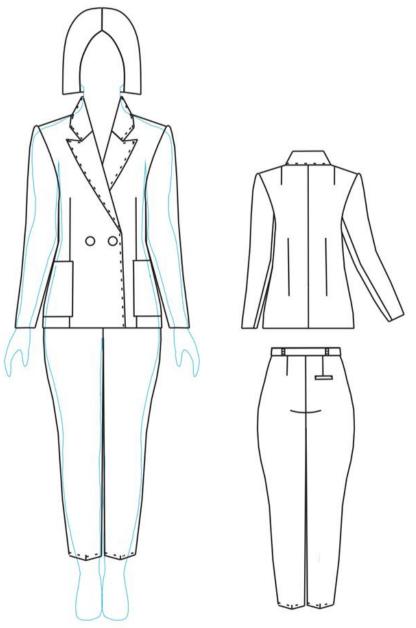


Figure 8. Sketch of the designed model of a women's suit

Description of the appearance of the model
The description of the costume model is
presented in the form of the "Description" window in

the "Grace" CAD in accordance with Figures 9 and 10.



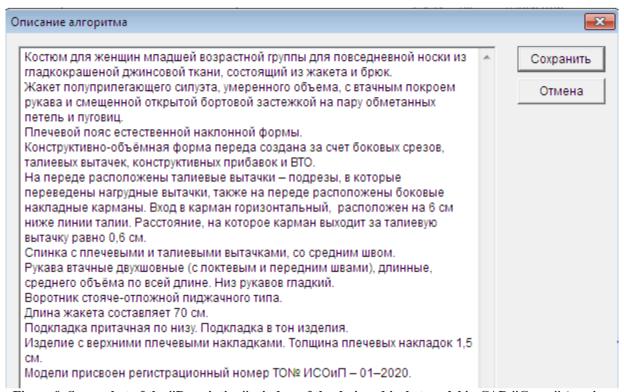


Figure 9. Screenshot of the "Description" window of the designed jacket model in CAD "Grace" (version 401)

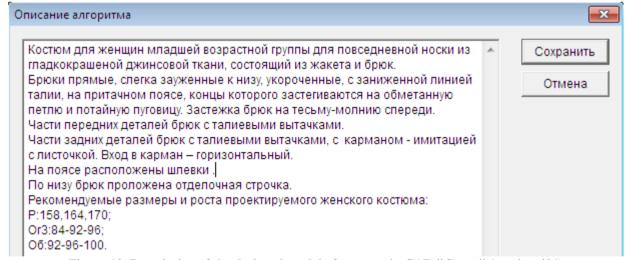


Figure 10. Description of the designed model of trousers in CAD "Grace" (version 401)

Study and analysis of the designed model

When studying the model, its features were identified and all the data necessary for developing the design of the designed model were determined, such as the length of the product and sleeve, the position of the chest line, waist and hips, the position of the main structural lines and seams. The analysis also established the silhouette, cut, volume of the product, lapel width, number and location of loops, position and configuration of the collar, position of pockets).

To work with the sketch, first of all, a transitional scale was found. It is determined by the ratio of overall dimensions in full size to the corresponding parameters in the figure. As such parameters, unchangeable dimensional features are selected, for example, "Height", "Width of the shoulder slope", "Distance between teat points", etc. (Figures 11 and 12). For the vertical scale, the value of the dimensional attribute "Height" was used, for the horizontal - "Width of the shoulder slope".



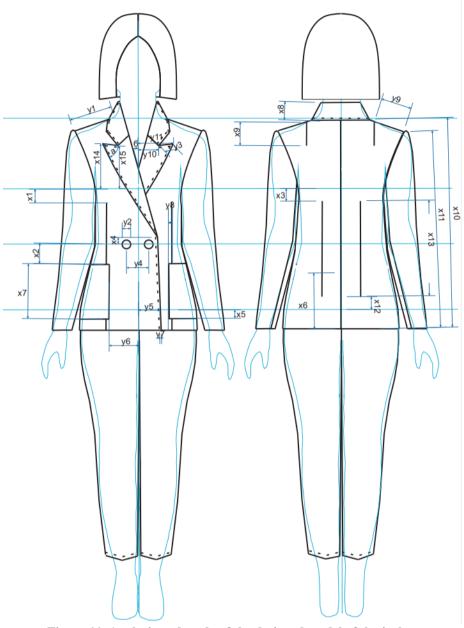


Figure 11. Analysis and study of the designed model of the jacket

ISRA (India)	= 6.317	SIS (USA)	= 0.912	ICV (Poland)	= 6.630
ISI (Dubai, UAE)	= 1.582	РИНЦ (Russi	a) = 3.939	PIF (India)	= 1.940
GIF (Australia)	= 0.564	ESJI (KZ)	= 8.771	IBI (India)	= 4.260
JIF	= 1.500	SJIF (Morocc	o) = 7.184	OAJI (USA)	= 0.350

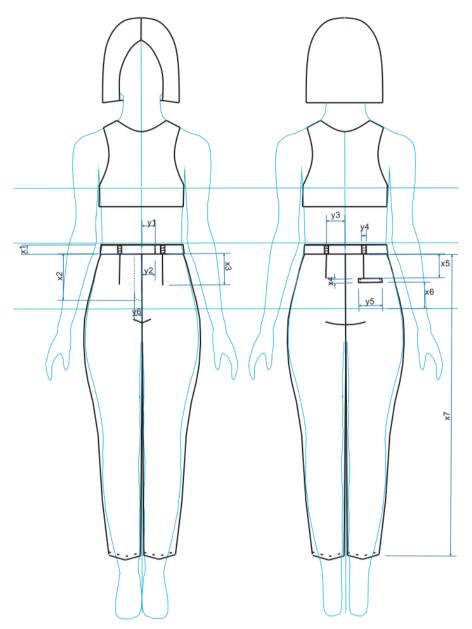


Figure 12 - Analysis and study of the designed model of trousers

The data obtained as a result of studying and analyzing the model on the overall dimensions and location of the model elements of the design details of the jacket and trousers are presented in accordance with Table 6.

Table 6. Overall dimensions of the details of the designed model of the suit (jacket and trousers)

Name of the constructive section	Symbol in the figure	Size in the picture, PP, cm	Full size, pH, cm
Pants			
Vertically			
belt width	X1	0.7	5
Codpiece length	x2	1.8	12.5
The length of the tuck on the front half	X3	1.2	8.5
leaf width	X4	0.2	1.5



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Distance from the top cut to the beginning of the	X5	0.9	6
entrance to the pocket			
The distance from the line of the hips to the lower	X6	1.1	6.6
edge of the leaflet	***	10	0.0
Length trousers	X7	12	80
Horizontally	T	T . =	1 -
The position of the waist tuck in relation to the	U1	0.7	5
middle seam on the front half	110	0.7	_
Belt buckle width	U2	0.7	5
The position of the waist tuck in relation to the	U3	0.6	4.5
middle seam on the back half	U4	0.1	0.6
Belt loop width	U5	1.8	0.6
Pocket entry width	U6	0.4	3
Codpiece Width	U 0	0.4	3
Jacket Vertically			
•	X1	0.5	3.3
The position of the end of the waist tuck relative to the chest line	Al	0.3	3.3
Distance from the waist line to the top edge of	x2	0.7	5.2
the pocket	XZ	0.7	3.2
The position of the end of the waist tuck relative	X3	0.5	3.5
to the chest line	AS	0.5	3.3
Distance from the waist line to the inflection	X4	0.1	1.3
point of the lapel	AT .	0.1	1.5
The position of the bottom edge of the pocket	X5	0.4	3
relative to the hip line	110		
Spline length	X6	2.3	15
Pocket length	X7	2.4	16
Back collar width	x8	0.6	4.6
The position of the shoulder tuck in relation to	x9	1.1	7.8
the end of the shoulder seam			
Length of the product	x10	10.6	70
The length of the sleeve	X11	8.2	58
The position of the end of the waist tuck on the	X12	0.5	3.5
back relative to the line of the hips			
Waist tuck length	X13	4.7	31.5
Distance from chest line to end of lapel	X14	2.5	17
Distance from the chest line to the point where	X15	2.04	13.5
the collar is sewn into the neck			
Horizontally			
Shoulder slope width	U1	2	13
Button diameter	U2	0.3	2
Sweep Width	U3	0.7	5
Distance between button centers	U4	0.9	6
Bead width	U5	0.8	5.5
Distance from pocket to half-drift line	U6	1.3	8.5
Distance from bead line to finishing stitch	U7	0.07	0.5
Distance the pocket extends beyond the tuck	U8	0.2	1.5
Back collar width	U9	0.7	5
Distance from the half-skid line to the point	U10	0.3	2.5
where the collar is sewn into the neck			
Distance from the half-skid line to the end of the	U11	1.06	7
lapel			
Angle measurements		<u> </u>	600
lapel angle	Angle a		60°
Clasp opening angle	Angle b		20°



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	.IIF = 1.	.500 S.III	F (Morocco)	= 7.184	OAJI (USA)	= 0.350

The result of the analysis is a drawing of a general view of the designed product of the jacket and trousers.

Drawings of the general view of the jacket and trousers are shown in figures 13 and 14, respectively.

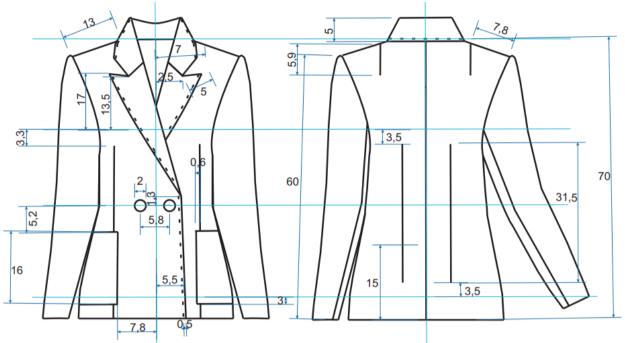


Figure 13 - General view drawing of the designed jacket model

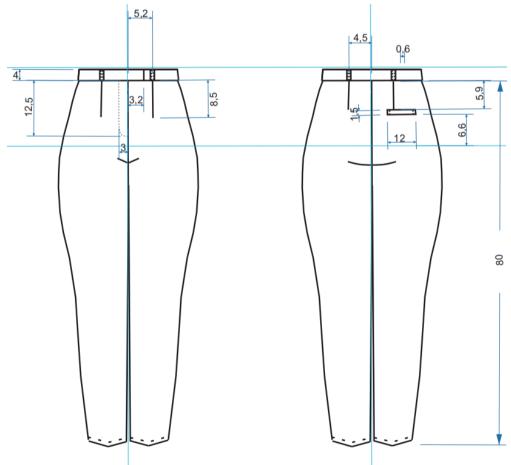


Figure 14 - General view drawing of the designed model of trousers



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Selection of initial data for model design

A unified method was chosen to develop the designed model of the suit.

designing women's clothing, made according to individual orders of the population for figures of various body types (parts 1,2) of the Central Experimental and Technical Sewing Laboratory (TSOTSHL). This method is based on data obtained as a result of anthropological studies on the typology of the population. The TsOTSHL method provides the construction of drawings of clothing details of any models and shapes, makes it possible to develop various cuts. All designs and a set of patterns are built without seam allowances.

When developing the designed model of a suit, consisting of a jacket and trousers, the calculation and

graphic method of designing TsOTSHL was chosen, since this method is used when designing clothes for an individual figure.

A feature of the unified TsOTSHL method is the division of the design process into 3 stages:

- building the basis of the product;
- development of a new form based on the basis;
- development of model diversity of form.

Calculation and graphical methods for constructing drawings of clothing details provide for the dimensional characteristics of a human figure and an allowance for free fitting as initial data.

As the initial information, windows from the PPP AP clothing are presented with the choice of "Reproduction parameters", "Dimensional characteristics", and "Formulas" in accordance with Figures 15 - 18., respectively.

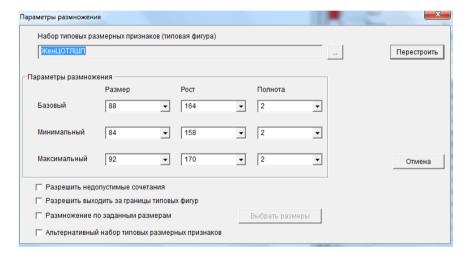


Figure 15 - Screenshot of the "Reproduction Parameters" window for developing an algorithm for constructing a women's jacket and trousers.

N	Пояснение	Обозначение	Формула	Значение
1	Рост	P	164.	164.
2	Полуобхват шеи	Сш	17.7	17.7
3	Полуобхват груди первый	Cr1	42.9	42.9
4	Полуобхват груди второй	Cr2	46.4	46.4
5	Полуобхват груди третий	Cr3	44.	44.
6	Полуобхват талии	Ст	33.8	33.8
7	Полуобхват бедер	C6	48.	48.
8	Ширина груди	Шг	16.5	16.5
9	Длина талии спинки 2	Дтс2	42.7	42.7
10	Длина талии переда 2	Дтп2	43.2	43.2
11	Высота груди	Br2	25.4	25.4
12	Высота проймы сзади 2	Впрз2	20.9	20.9
13	Высота плеча косая	Впк2	42.6	42.6
14	Ширина спины	Шс	17.3	17.3
15	Ширина плечевого ската	Шп	13.1	13.1
16	Обхват плеча	On	27.5	27.5
17	Обхват запястья	Озап	15.9	15.9
18	Глубина талии первая	Гт1	5.3	5.3
19	Глубина талии вторая	Гт2	5.2	5.2

Figure 16 - The "Dimensional Features" window (fragment, women's jacket) for developing an algorithm for constructing a women's jacket and trousers



ISRA (India)	= 6.317	SIS (USA)	= 0.912	ICV (Poland)	= 6.630
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GIF (Australia)	= 0.564	ESJI (KZ)	= 8.771	IBI (India)	= 4.260
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N	Пояснение	Обозначение	Формула	Значение
0	Прибавка к обхвату бедра	П6	2	2.
1	Прибавка к обхвату талии	Пт	0,5	0.5
22	Прибавка к обхвату бедра	Пбед	4	4.
23	Прибавка к высоте сидения	Пдс	1,5	1.5
24	Расстояние от линии тали до пола сбоку	Дсб	107	107.
25	Расстояние от линии талии до пола сзади	Дсз		
26	Расстояние от линии талии до пола спереди	Дсп		
27	Расстояние от линии талии до плоскости сидения	Дс	26,3	26.3
28	Выступ ягодиц относительно талии	Вят	4,5	4.5
29	Выступ живота относительно талии	Вжт	1,5	1.5
30	Обват бедра	Обед	60	60.
31	Ширина брюк внизу	Шн	15	15.
32	Ширина брюк на уровне колена	Шк	19	19.

Figure 17 - Screenshot of the "Formulas" window for developing an algorithm for constructing women's trousers (fragment)

<u>, </u>	Пояснение	Обозначение	Формула	Значени
0	Ширина груди вторая	Шг2	18.7	18.7
1	Раствор плечевой вытачки	р.вытачки	2	2.
2	Прибавка на свободу по линии груди	Пг	5	5.
3	Прибавка на свободу по линии талии	Пт	8	8.
4	Прибавка на свободну по линии бедер	П6	4	4.
5	Прибавка на свободное облегание к ширине спинки	Пшс	0.95	0.95
6	Прибавка на свободное облегание к ширине переда	Пшп	0.55	0.55
7	Прибавка на свободное облегание к ширине горловины переда	Пшгор	0.3	0.3
8	Прибавка на свободное облегание к глубине горловины переда	Пггор	0	0.
9	Прибавка к длине талии спинки	Пдтс	0	0.
0	Прибавка к высоте горловины спинки	Пвгс	0.2	0.2
1	Прибавка на свободу проймы по глубине	Пспр	3	3.
2	Прибавка на плечевую накладку	Ппн	0.5	0.5
3	Прибавка к длине талии переда	Пдтп	Пдтс+0,5	0.5
4	Прибавка к высоте плеча косой	Пвпк	Пдтс+Ппн+0.5*0.5+0.5	1.25
5	ширина сетки	A0a1	Сг3+Пг	49.
6	ширина спинки	A0a	Шс+Пшс	18.25
7	ширина переда	a1a2	Шr+(Cr2-Cr1)+Пшп	20.55
8	ширина проймы	aa2	A0a1-a1a2-A0a	10.2
9	Отвод ср. линии спинки от вертикали на уровне линии талии	отвод	1.5	1.5
0	Уровень лопаток	А0У	0.4*Дтс2	17.08
1	Уровень глубины проймы	А0Г	Впрз2+Пспр+0.5*Пшгор	24.05
2	Уровень линии талии	A0T	Дтс2+Пдтс	42.7

Figure 18 - Screenshot of the "Formulas" window for developing an algorithm for constructing a women's jacket (fragment)

Model design development

The development of model features was carried out using well-known methods of constructive modeling, the results of the analysis of the model and the general view drawing were also taken into account

Changes to the BOC of the jacket drawing were made in accordance with the first type of constructive modeling, namely:

- breast tucks were moved to waist darts on the front;

- the location and shape of patch side pockets are determined;
 - location and number of buttons;
 - collar configuration;

Constructive modeling of trousers consists in determining the width of the stitched belt and the location, shape and size of the leaflet.

A drawing of the model design of the designed model of the set-in sleeve, jacket and trousers is presented in accordance with figures 19 - 20.



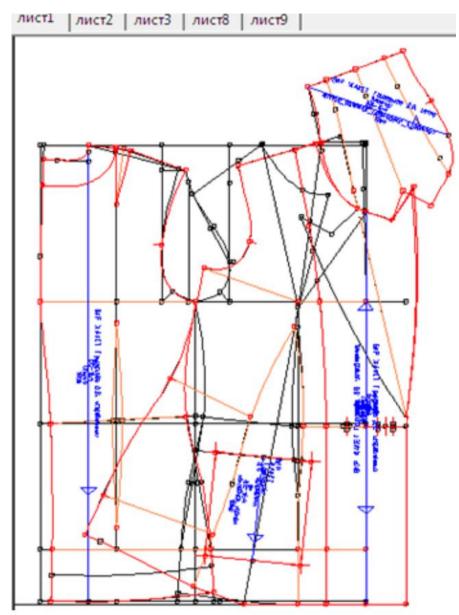


Figure 19 - Model design of the jacket using the Grace CAD software

ISRA (India)	= 6.317	SIS (USA)	= 0.912	ICV (Poland)	= 6.630
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GIF (Australia)	= 0.564	ESJI (KZ)	= 8.771	IBI (India)	= 4.260
JIF	= 1.500	SJIF (Morocc	(co) = 7.184	OAJI (USA)	= 0.350

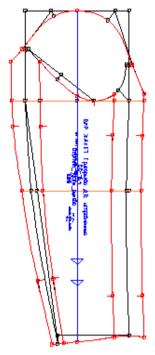


Figure 20 - Model design of a set-in sleeve using the PPP CAD "Grace"

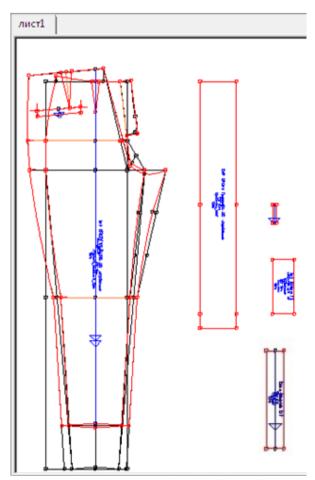


Figure 21 - Model construction of trousers using the Grace CAD software application

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Checking the design in the layout

An important step in the technological process of manufacturing clothes for individual orders of the population is the fitting of the product on the figure of the customer. The purpose of fitting the layout is to achieve the conformity of the type of product with the shape of the figure, satisfy the customer's requests and accurately execute the model of the product, clarify the shape of the product and the placement of decorative elements on it.

Before cutting out the patterns of each part, we checked for conjugacy of lines and overlapping of the same-name slices, the position of control signs, and clarified the configuration of the slices in the initial and final sections. Next, the details were cut out and the main structural lines and the lapel fold line were applied to them.

We made a layout of the designed model of a women's suit by sweeping and sweeping the side and shoulder sections of the prepared parts. The collar and right sleeve were worn in. Adopted shoulder pad. The basting of patch pockets and the location of the buttons has been completed.

During the fitting, the fit of the product on the figure, the shapes and proportions of the parts of the product, the dimensions of the decorative and finishing parts and their placement on the product were specified.

During the first fitting, the general shape of the product and its parameters were specified. The silhouette of the product is refined by comparing the appearance and dimensions of the product being tried on with a sample model, photograph and analysis of the designed model.

We checked the length and width of the made model sample, the shape of the sleeve and its position in the armhole.

We checked the position of the collar in the neck and corrected its shape and dimensions, checked the position of the ledge and the fold of the lapels. Clarified the position and dimensions of the side pockets.

Checked product balance.

In the course of trying on a sample layout of the projected jacket model, adjustments were made: the configuration of the collar and lapel was changed, the shape of the neckline on the back was changed, and the width along the hip line was also reduced by 3 cm.

When trying on the model of trousers, no shortcomings were identified, but it was decided to increase the width of the belt to 5 cm and reduce the length of the trousers by 4-5 cm.

Then we made all the changes to the layout and patterns of the product, identified during the first fitting.

Technical project

The main goal of the technical project was the selection and justification of the final design and technological solutions for the designed product. At this design stage, the following types of work were carried out: a rational package of materials for the product was selected; a confection map was drawn up; the specification of patterns and details of the cut of the designed product was completed.

Selection of a rational package of materials for the product

The main, lining and cushioning materials were selected based on the properties of the materials specified in the Terms of Reference, the type and purpose of the product.

When selecting materials, the knowledge and skills acquired during the course "Confectioning of materials" were used.

The characteristics of the materials used in the manufacture of the product are presented in accordance with Table 7.

Table 7. Characteristics of the materials used in the manufacture of the model

Material type	Name	Fiber composition	
		0	At
Main material	Jeans	Cotton+Elastane	Cotton+Elastane
lining material	Viscose	Viscose	Viscose
Gasket material	Interlining	Viscose	Viscose

The table of measures is a technical document that regulates the conformity of the dimensions of the details of the finished product with the dimensions of the corresponding patterns.

The list of places for measuring parts includes such a number of items that guarantees the compliance

of the manufactured products with the designed model.

models. Figures 22 - 23 show the "Task for the development of a table of measures" window for trousers and a jacket.



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GIF (Australia) = 0.564	ESJI (KZ) = 8.771	IBI (India)	= 4.260
JIF $= 1.500$	SJIF (Morocco) = 7.184	OAJI (USA)	= 0.350

				Парал	иетры
N	Пояснение	Обозначение	Формула	Значение	Прим
1	Длина изделия	Ди	Ди	70.	
2	Длина рукава	Друк	Друк	55.	
3	Ширина горловины спинки	A0`A2	A0`A2	6.7	
4	Длина проймы	Дпр	Дпр	45.2	
5	Ширина рукава в готовом виде	Шр	Шр	17.45	
6	Длина талии спинки 2	Дтс2	Дтс2	42.7	
7	Длина талии переда 2	Дтп2	Дтп2	43.2	
8	Ширина плечевого ската	Шп	Шп	13.1	
9	Ширина спины	Шс	Шс	17.3	
10	ширина переда	a1a2	a1a2	20.55	
11	ширина спинки	A0a	A0a	18.25	
12	Уровень линии талии	AOT	AOT	42.7	

Figure 22 - Screenshot of the window "Assignment for the development of a sheet of measures" for the designed model of the jacket (fragment) in the PPP CAD "Grace"

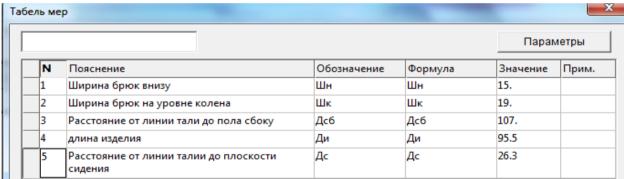


Figure 23 - Screenshot of the window "Tasks for the abel of measures" for the designed model of trousers (fragment) in the CAD "Grace" PPP

Since CAD "Grace" was used in the work, it is possible to automatically recalculate the algorithm and the entire structure to the individual parameters of any customer.

The developed pattern templates from the main fabric are presented in accordance with figures 24 and 25.



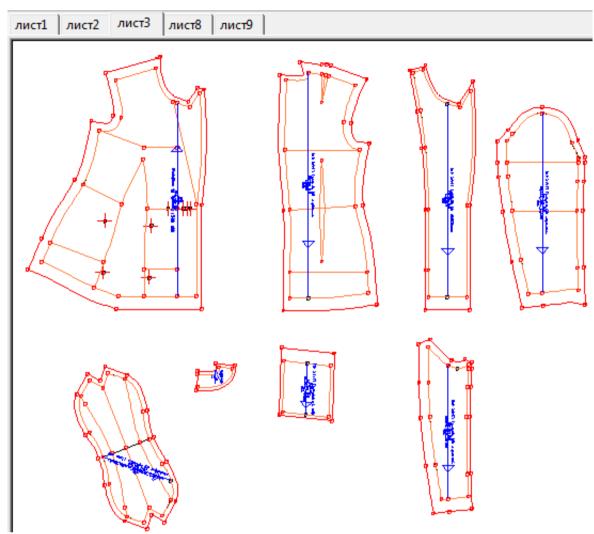


Figure 24 - Patterns of patterns for the details of the designed model of the jacket from the main fabric in CAD "Grace" (version 401)

ISRA (India)	= 6.317	SIS (USA)	= 0.912	ICV (Poland)	= 6.630
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JIF	= 1.500	SJIF (Moroco	(co) = 7.184	OAJI (USA)	= 0.350

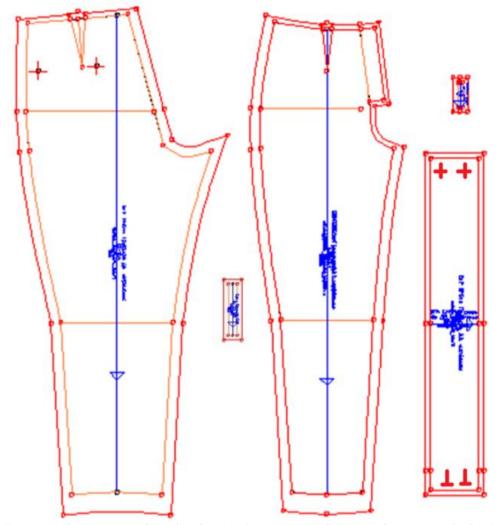


Figure 25 - Templates for patterns of details of the designed model of trousers from the main fabric in CAD "Grace" (version 401)

Construction of working drawings of patterns of derived parts

Drawings of templates of derived parts of the designed model are developed on the basis of drawings of templates of the main parts using construction schemes, taking into account the properties of materials, processing methods and equipment.

Figure 26 shows templates for patterns of parts for lining material for trousers.

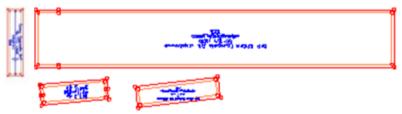


Figure 26 - Templates for patterns of details of the designed model of trousers made of cushioning fabric in CAD "Grace" (version 401)

Figure 27 shows templates for patterns of lining material for a jacket.





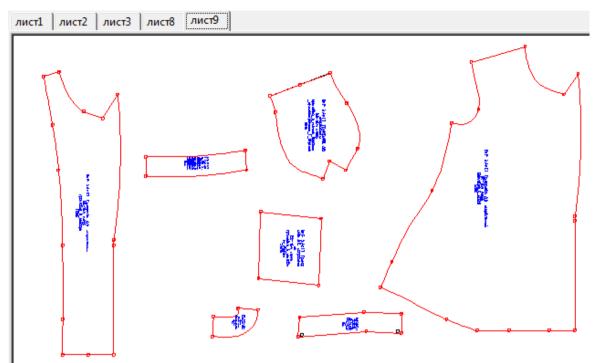


Figure 27 - Templates for patterns of details of the designed model of a jacket made of cushioning fabric in CAD "Grace" (version 401)

Figure 28 shows templates for patterns of lining material for a jacket.

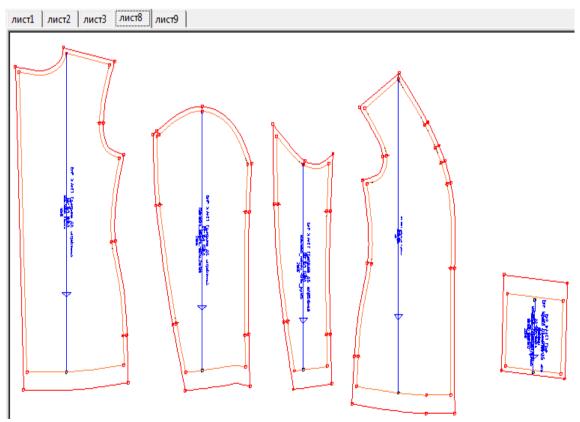


Figure 28 - Templates for patterns of details of the designed model of a jacket made of cushioning fabric in CAD "Grace" (version 401)



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GIF (Australia)	= 0.564	ESJI (KZ)	= 8.771	IBI (India)	= 4.260
JIF	= 1.500	SJIF (Moroco	(co) = 7.184	OAJI (USA)	= 0.350

The development of a task for the layout in the PPP CAD "Grace" is shown in Figure 29 using the

example of a task for the layout of patterns from the base material.

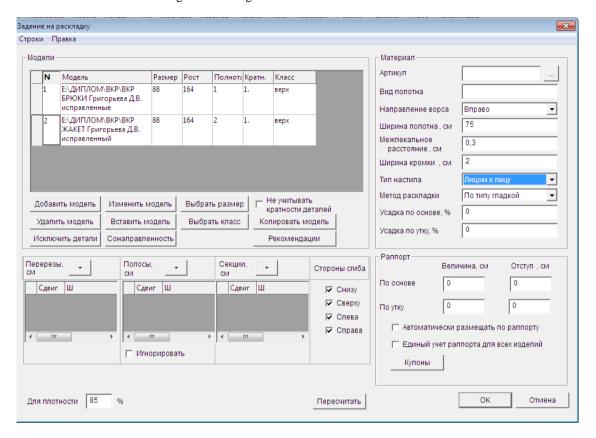


Figure 29 - Screenshot of the window "Task for nesting" patterns from the base material in the PPP CAD "Grace" (version 401)

The layout of the patterns of the details of the women's suit from the base material is presented in accordance with Figures 30 and 31.

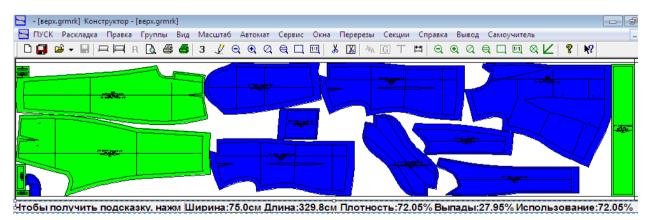


Figure 30 - Development of the layout of templates for patterns of a women's suit from the main material in the software application of CAD "Grace" (version 401) in an automated way



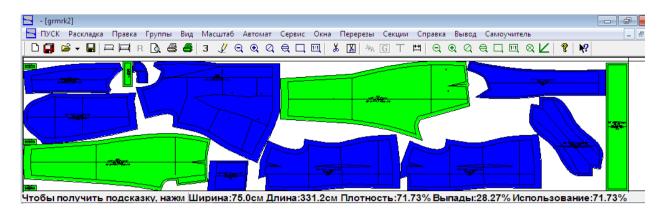


Figure 31 - Development of the layout of templates for patterns of a women's suit from the base material in the software application of CAD "Grace" (version 401) manually

The layout of the patterns of the details of the women's suit from the lining material is presented in accordance with figures 32 and 33.

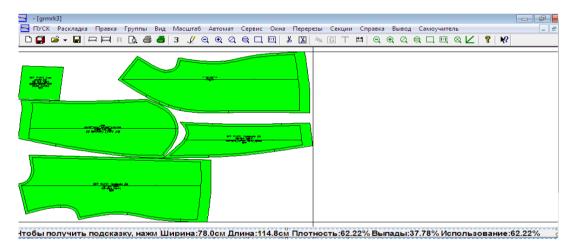


Figure 32 - Development of the layout of templates for patterns of a women's suit from the lining material in the software application of CAD "Grace" (version 401) in an automated way

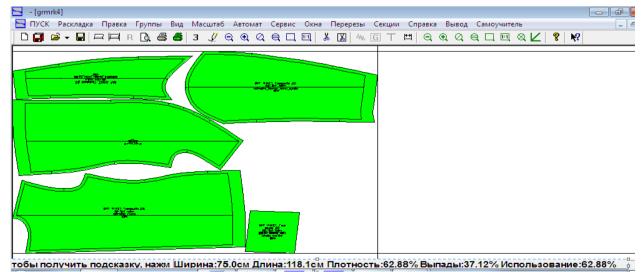


Figure 33 - Development of the layout of templates for patterns of a women's suit from the lining material in the software application of CAD "Grace" (version 401) manually



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	GIF (Australia) = 0.5	64 ESJI (KZ)	= 8.771	IBI (India)	= 4.260
	.IIF = 1.5	SJIF (Mot	rocco) = 7.184	OAJI (USA)	= 0.350

The layout of the patterns of the details of a women's suit made of cushioning material is presented in accordance with Figures 34 and 35.

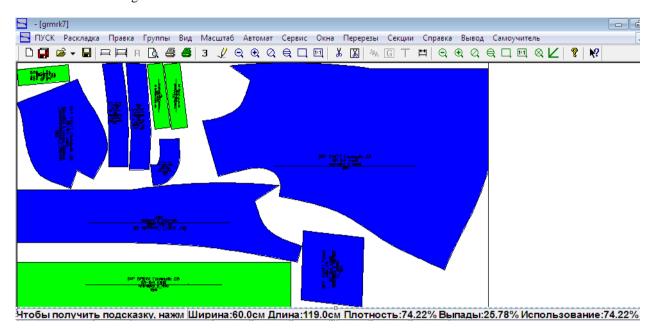


Figure 34 - Development of the layout of templates for patterns of a women's suit from a cushioning material in the software application of CAD "Grace" (version 401) in an automated way

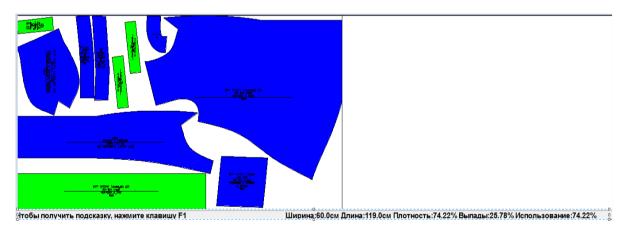


Figure 35 - Development of the layout of templates for patterns of a women's suit from cushioning material in the software application of CAD "Grace" (version 401) manually

The list of all materials and fittings is presented in accordance with table 8.

Table 8. Specification of materials and fittings

Material name	Purpose of the material	unit of measurement	Product cost	Note
1	2	3	4	5
Jeans	Main material	m	3.29	With a width of 150 cm and an edge of
				2 cm
Viscose	lining material	m	1.17	With a width of 150 cm and an edge of
				2 cm
dublerin	Gasket material	m	1.19	With a width of 120 cm



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Reinforced threads "Gutermann"	bonding material	kt	3	-
Jacket buttons	Finishing	PCS	3	Two buttons with a diameter of 2 cm and one button with a diameter of 1.5 cm
Trouser buttons	Finishing	PCS	2	Diameter 1.5 cm
Shoulder pads	Shoulder pads	PCS	2	Thickness 1.5cm
Braid - lightning	Finishing	PCS	1	19 cm

Development of a gradation scheme for the patterns of the main parts of the product

In CAD "Grace" (version 401) there is no need for the technological stage of pattern gradation, since the system itself creates patterns of all size and height

options by calculating and building a pattern for each size.

An example of rebuilding a template - backrest patterns in size and height is shown in accordance with Figures 36 - 39.

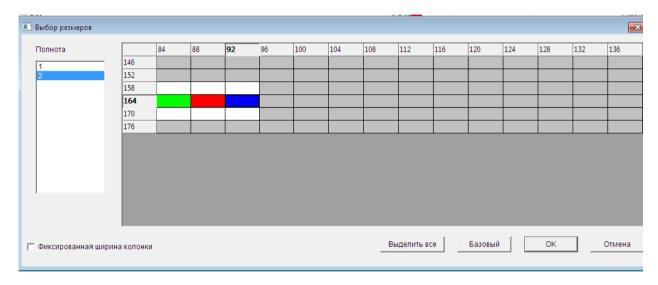


Figure 36 - Task for the gradation of templates for patterns of a women's suit by height in the software application of CAD "Grace" (version 401)

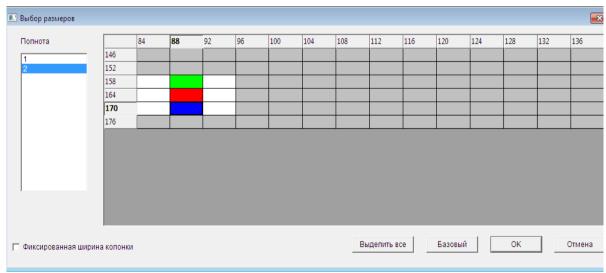


Figure 37 - Task for the gradation of templates for patterns of a women's suit by size in the PPP CAD "Grace" (version 401)





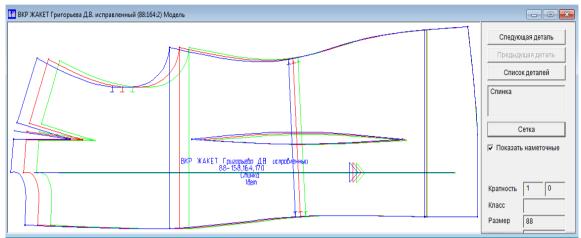


Figure 38 – Gradations of the template of the backrest pattern according to heights in the PPP CAD "Grace" (version 401)

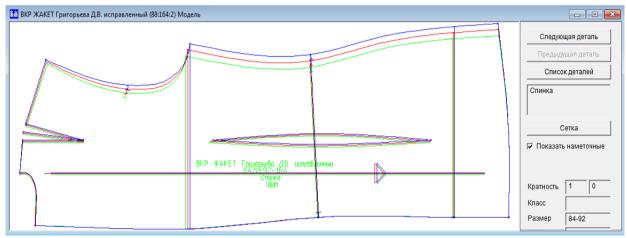


Figure 39 - Gradations of the backrest pattern template by size in the PPP CAD "Grace" (version 401)

Conclusions on the section: in this section, an analysis of fashion trends was carried out, requirements were formulated both for materials and for clothing in general. A rational package of materials was selected, fashionable fabrics were proposed, their texture, the color scheme of which corresponds to the fashionable direction and is quite applicable to the considered range of clothing. A sketch of the designed model of the costume was developed, compiled. The analysis and study of the model was carried out, a model design was developed. The specification of

patterns has been developed. Patterns of patterns for the main details of clothing have been developed. The rationality of using CAD was revealed, since the program greatly simplifies the work of the designer.

Product Assembly Sequence Diagram

The assembly scheme of the jacket for fitting is shown in Figure 40.



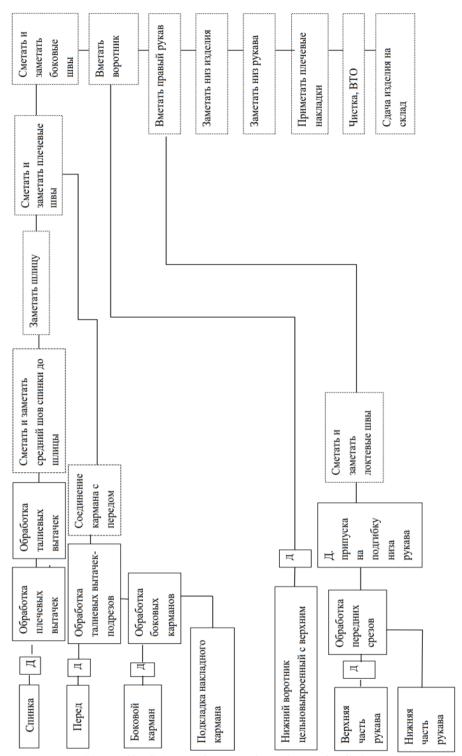


Figure 40 - Scheme of assembling a jacket for fitting

The assembly scheme of the jacket after fitting is shown in Figure 42.



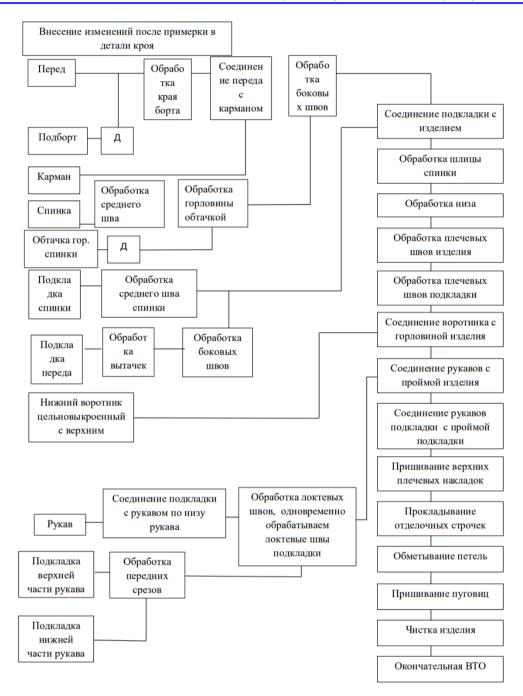


Figure 41 - Scheme of the assembly of the jacket after trying on

The assembly diagram of trousers without trying on is shown in Figure 42.





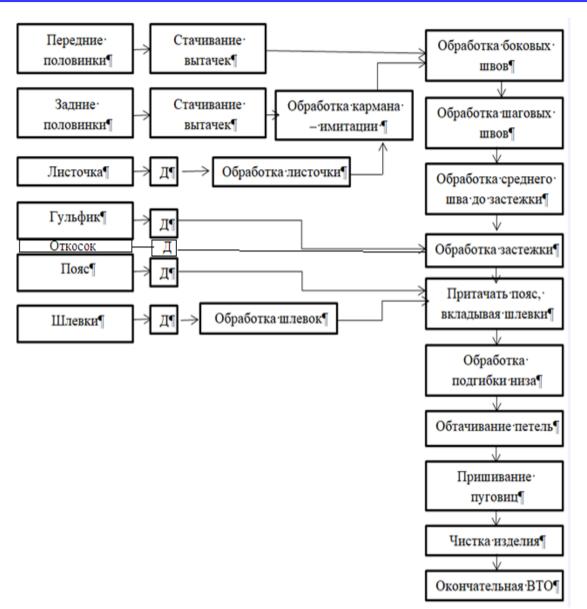


Figure 42 - Pants Assembly Diagram

Choice of processing methods

The assembly drawing contains complete information about the design and processing methods of all the main components of the designed product.

The assembly drawing of the jacket and trousers is presented in accordance with figures 43 and 44.





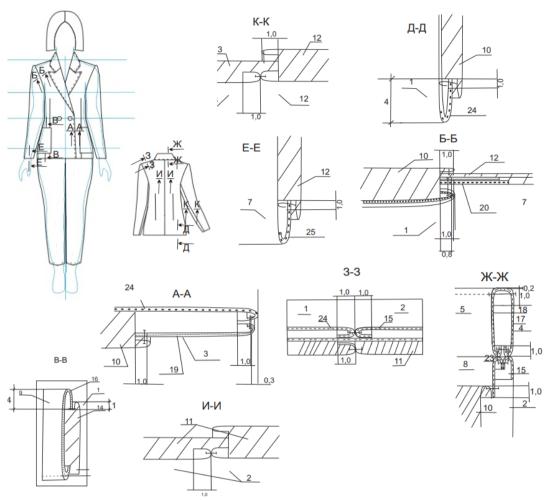


Figure 43 - Assembly drawing of the designed model of the jacket

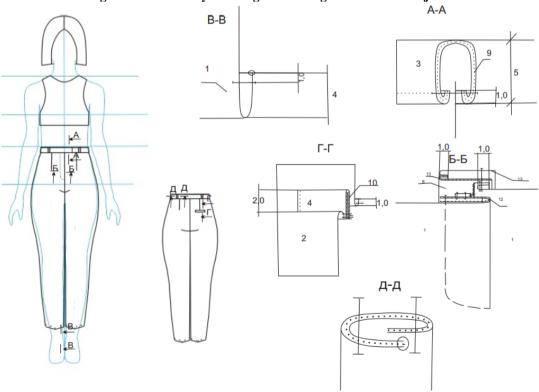


Figure 44 - Assembly drawing of trousers

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GIF (Australia)	= 0.564	ESJI (KZ)	= 8.771	IBI (India)	= 4.260
JIF	= 1.500	SJIF (Moroco	(co) = 7.184	OAJI (USA)	= 0.350

The characteristics of the recommended equipment and devices for small-scale mechanization are presented in tables 9 - 11, respectively.

Table 9. Characteristics of sewing equipment

Purpose of equipment	Type of processed materials	Class, type, brand of equipment,	Stitch type	Maximum number of stitches per	Maximum stitch length (loop	Max. material thickness	Material handling principle
		manufacturer		minute	length), mm		
Stitching, turning, stitching	Suit fabrics, lining fabrics	1022-M class. CJSC "PShM"	Two- strand shuttle	4500	5.0	5.0	Rack
Buttonholes	suit fabrics	62761-SM class.	Double thread zigzag	3600	33.0	12.0	Rack
Basting, basting, stitching	suit fabrics	2222 - M class. JSC "Orsha"	single thread chain	3000	12.0	8.0	Rack

Table 10. WTO equipment

Type, brand, manufacturer	Purpose of equipment	Heating temperature,	power, kWt	Steam consumption	Dimensions		Weight,	
manuracturer	equipment	°C	KVV	kw/h	Length	Width	height	kg
Electric steam	Ironing,	100-240	0.5-0.6	3	240	125	153	3.0
iron UTP-2EP	ironing,							
OZLK	decanting,							
	steaming							

Table 11. Characteristics of small-scale mechanization devices

Operation Requirements	Device name	Fixture brand	Sewing machine class	
Keeping the stitching parallel to the cuts of the parts to be machined	Foot with retractable guide ruler	1-44 (L-000) MOMZ TSNIISHP	1022-M class. CJSC Promshveimash	

An important factor in increasing efficiency is the use of modern equipment, materials, processing methods; the choice of a rational method for forming knots, a technological and economical design, the use of one-piece parts (lower collar with an upper collar, one-piece facing on patch pockets, one-piece leaf), configuration of slices of parts (better stacking in the layout).

Conclusion

The main areas of activity in which the development of the clothing industry is currently being carried out in accordance with the adopted Strategy for the Development of Light Industry in Russia are considered.

The geographical features of the regions of the Southern Federal District and the North Caucasus Federal District and an estimate of the number of children's population are given. The features that influence the formation of the range of children's clothing are analyzed. The principles of a competent assortment policy for the production of competitive children's clothing are determined, taking into account the factors affecting its consumer demand:

The requirements for children's clothing and determining its quality are analyzed, of which the most important are the safety requirements established bytechnical regulations of the Customs Union TR TS 007/2011, as well as requirements for materials, xthe chemical composition and structure of which determine all the basic properties of finished products, divided by nature into physical, chemical, mechanical, biological. Taking into account this factor, all the others are formed: design, technology, etc. Taking into account all kinds of requirements for clothing, it is noted thatincreasing the competitiveness of Russian



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industries in different markets is the production of clothes from natural organic materials, due to their undoubtedly better hygienic properties.

The influence of innovative technologies on the development of children's clothing production has been studied; recommendations are given on equipping the garment enterprises of the South with innovative equipment. The efficiency of enterprises, and in many respects their ability to survive in the competitive struggle, depends on the ability to quickly and cost-effectively reorganize production according to fluctuations in demand, the best opportunities for this are the development and implementation of flexible production systems. The restructuring and technical re-equipment of modern small and mediumsized production of children's clothing, as well as manufacturers of men's clothing with highperformance multifunctional equipment, should be facilitated by the widespread introduction of the practice of leasing schemes as the most optimal option for the development of Russian production.

Thus, the transition of the industry to an innovative development model focused on increasing its competitive advantages not only meets the vital needs of many regions of the Southern Federal District and the North Caucasian Federal District (reducing social tension, providing employment for the population, developing small and medium-sized businesses), but also contributes to the formation of a prosperous, an ecologically healthy childhood environment that satisfies social needs for a fulfilling life.

For the successful implementation of the proposed measures, a real interest in supporting the clothing enterprises of the South from the federal and regional branches of government is necessary, which should lead to a reduction in prices for components, materials, energy costs and transport, providing the manufacturer with the opportunity, due to the price niche, to offer the domestic consumer a demanded and competitive product. children's clothes. This can provide many manufacturers with stable positions not only in domestic, but, most importantly, in foreign markets. As a result of the research, amodel design of a suit for women of younger age group of the size 164-84-92, of the second weight group, as well as technical documentation for its manufacture.

In the design and engineering section, at the stage of the technical assignment, a set of requirements for a women's suit and its technical documentation was developed. Based on these requirements and analysis of fashion trends for the current and future periods, a sketch of a designed female denim suit, developed using CorelDRAWX5 program, is presented. description of appearance is made. At the stage of studying and analyzing models, data were obtained on the overall dimensions of the main parts and the location of model structural elements, on the basis of which general view drawings of the designed product were developed. At the stage of studying and analyzing the model, data were obtained on the overall dimensions of the main parts and the location of the model structural elements, on the basis of which a drawing of a general view of the designed model of clothing for women of the younger age group was developed. In the CAD program "Grace 401" a model design of a women's suit was built.

At the stage of the technical project for the manufacture of the designed women's suit, a rational package of materials was selected that meets the requirements formulated in the terms of reference.

The parts were cut according to the patterns developed at the detailed design stage in accordance with the experimental layouts.

A model of the designed product was made, which made it possible to refine the design and make the necessary corrections.

In the technological section, the methods of shaping the designed set of clothes were determined. The proposed processing methods ensure the manufacture of high-quality products in the conditions of individual production. Improving Efficiencydesigned female costumeachieved by choosing the optimal technological processing modes, drawing up rational schemes for assembling products.

The results of the studies performed confirm that the developed suit for women of the younger age group meets the stated requirements and is appropriate for introduction into production. To design and develop a model of a women's suit for the senior group, an analysis of the fashion direction for the promising season was carried out, the most relevant colors and silhouettes were identified.

After analyzing the direction of fashion, the requirements for the designed product and materials were studied and provided.

Based on the analysis of the fashion direction, the most advantageous version of the women's suit was chosen, which was necessary for the further production of the model, taking into account the individual characteristics of the customer.

Thanks to the analyzes done and the study of information in the literature and magazines, a draft design was developed and a description of the projected model was drawn up. The overall dimensions of the design details of the model were presented in the form of a table.

For further development of the design of the women's suit, an array of initial information was chosen in the form of a table of dimensional features and allowances for free fitting.

With the help of trying on a model of a women's suit, it was possible to carry out work to eliminate fit defects associated with the individual characteristics of the customer's figure. Based on this, a confection map and specification were drawn up, samples of materials and fittings were provided.



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The following were produced: the development of derivative parts of a women's costume, which made it possible to determine the consumption of materials using layouts; development of gradation schemes for sizes and heights using the example of a jacket back detail.

To select processing methods and equipment, a characteristic of the shaping of the main parts was given, on the basis of which it was possible to develop an assembly drawing and assembly diagrams of the product before and after fitting.

Determining the economic efficiency of design development made it possible to calculate the cost of developing design and technological documentation, taking into account typical time standards for compiling documentation and spending both raw materials and materials.

According to the developed layout templates for patterns of women's costume parts in CAD "Grace" (version 401), both with the traditional (manual) and automated method of laying out parts, savings were determined while reducing the consumption of materials for the designed product, which made it possible to calculate the total price for the designed model and the savings were determined by reducing the consumption of each type of material for a women's suit, as well as the total.

Thus, we can conclude that the developed models of women's suits in the conditions of individual production fully comply with all the requirements and fashion trends. The products are suitable for everyday wear, as well as for office work and going out to events.

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CONSTRUCTION OF AN ALGORITHM FOR IDENTIFICATION OF COMPLEX TECHNOLOGICAL OBJECTS

Abstract: the algorithm of identification of complex technological objects is considered, which, in the conditions of regularly updated information, allows determining their static models, predicting their dynamics of their functioning.

Key words: complex technological object, identification algorithm, optimal amount of information, static model of the object.

Language: Russian

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ПОСТРОЕНИЕ АЛГОРИТМА ИДЕНТИФИКАЦИИ СЛОЖНЫХ ТЕХНОЛОГИЧЕСКИХ ОБЪЕКТОВ

Аннотация: рассмотрен алгоритм идентификации сложных технологических объектов, который в условиях регулярно обновляющейся информации позволяет определять их статические модели, прогнозирование их динамику их функционирования.

Ключевые слова: сложный технологический объект, алгоритм идентификации, оптимальный объем информации, статическая модель объекта.

Введение

Основной задачей автоматизации сложных технологических объектов является определение и поддержание их оптимальных режимов работы. Характерная нестационарность непрерывно промышленных функционирующих объектов, определяемая воздействием неконтролируемых возмущений и колебанием составов сырья, высокий уровень шумов, связанный с ошибками измерений и низкой точностью результатов аналитического контроля, осложняют достижение оптимальных показателей при управлении. Учет инерционности и запаздывания при передаче управляющих воздействий определяет необходимость прогнозирования будущих состояний объектов на основе информации о ходе процессов и принятых ранее действий по управлению.

Применение математических моделей объектов в управляющих устройствах дает возможность определять значения управляющих воздействий на модели и передавать их на объект [1, с. 62].

Доминирующее положение при этом принадлежит уравнениям статики, позволяющим на некотором интервале времени судить о необходимых управляющих воздействиях.

Согласно [2, с. 144], статическая модель может функционировать в качестве комбинированной системы управления в режиме прогнозирования, что значительно снижает время работы объектов вне оптимальных режимов.

Математическое описание статических режимов технологических объектов обычно представляется в виде эмпирических зависимостей [3, c. 74]:



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$$y = a_1 x_1 + \dots + a_k x_k \,, \tag{1}$$

где $y=y+e_1$ — наблюдаемая случайная величина, $x=x+e_2$ — наблюдаемые значения некоторых переменных, $a_i, i=1,...,n$ — регрессионные коэффициенты, e_1,e_2 — неизвестные случайные ошибки, вносимые измерениями входных и выходных параметров объектов в промышленных условиях, n — число точек в информационном массиве.

В большинстве случаев регрессионные модели различного вида, аппроксимирующие экспериментальные данные, не соответствуют реальной структуре модели объекта, создавая дополнительные погрешности при определении оптимальных управляющих воздействий. По нестационарности технологических объектов величины коэффициентов изменяются во времени. Реализовать оптимальное управление объектом с неизвестными текущими значениями параметров наиболее точно возможно при использовании дуального управления [5, с. 344]. Однако чистое дуальное управление применимо лишь в сравнительно простых случаях и связано со значительными объемами вычислений [6, с. 23].

Вследствие этого появляется необходимость определения коэффициентов модели с необходимой точностью в текущий момент времени и прогнозирования будущего поведения объекта на основе математической модели, соответствующей моменту управления [7, с. 56]

В момент съема информации значения входных переменных представим в виде матрицы X(n), выход объекта - в виде вектора Y(n). В матричной форме математическая модель объекта имеет вил:

$$Y(n) = X(n)A(n), (2)$$

где A(n) – матрица регрессионных коэффициентов.

В соответствии с методом максимального правдоподобия матрица коэффициентов может быть определена из соотношения:

$$A(n) = \left[X(n)^{T} X(n) \right]^{-1} X(n)^{T} Y(n).$$
 (3)

Согласно (3), элементы матрицы A(n)

оцениваются выражением:

$$a_{ij} = \frac{\operatorname{cov}[y_i^j x_i^j]}{\sigma_{x_i}^2},\tag{4}$$

где $\text{cov}[\cdot]$ - ковариационная матрица соответствующих параметров, $\sigma_{x_i}^2$ - дисперсия входных параметров.

Матрица A(n) определяется текущими значениями массивов входных и выходных параметров, математического ожидания и дисперсии входных и выходных параметров:

$$A(n) = f(\bar{x}, \bar{y}, m_{x_i}, m_{y_i}, \sigma_{x_i}^2, \sigma_{y_i}^2).$$
 (5)

Из (5) следует, что величины m_{x_i} , m_{y_i} , $\sigma_{x_i}^2$, $\sigma_{y_i}^2$ являются функциями времени. Поэтому уточнение коэффициентов математической модели целесообразно производить в текущий момент времени путем уточнения величин m_{x_i} , m_{y_i} , $\sigma_{x_i}^2$, $\sigma_{y_i}^2$ при использовании дискретных алгоритмов идентификации, предложенных в [2, с. 96]:

$$m_{x_{i}}[n] = m_{x_{i}}[n-1] - n^{-1}(m_{x_{i}}[n-1] - x_{i}[n]),$$

$$m_{y_{i}}[n] = m_{y_{i}}[n-1] - n^{-1}(m_{y_{i}}[n-1] - y_{i}[n]), \qquad (6)$$

$$\sigma_{x_{i}}^{2}[n] = \sigma_{x_{i}}^{2}[n-1] - n^{-1}\{\sigma_{x_{i}}^{2}[n-1] - (x_{i}[n] - m_{x_{i}}[n])^{2}\},$$

$$\sigma_{y_{i}}^{2}[n] = \sigma_{y_{i}}^{2}[n-1] - n^{-1}\{\sigma_{y_{i}}^{2}[n-1] - (y_{i}[n] - m_{y_{i}}[n])^{2}\}.$$

Оценка матрицы коэффициентов регрессии получается путем применения метода наименьших квадратов в сочетании с системой (6). Данный алгоритм реализован в вычислительной среде MathCad применительно к тестовой модели. Расчет коэффициентов регрессии, а также среднеквадратического отклонения расчетных значений выходного параметра от его истинных значений начинался с анализа десяти точек исходного массива (d), затем в каждом такте добавлялось еще пять.

На рисунке представлены результаты исследования величины остаточной дисперсии, принятой в качестве оценки точности выходной переменной объекта, от объема информации при влиянии различных помех на входе и выходе объекта для тестовой модели. Исследование полученных зависимостей показывает, что по мере накопления информации остаточная дисперсия уменьшается, а затем, начиная с определенного такта, возрастает.

Следовательно, если поступающая информация теряет свою ценность с увеличением тактов, а старая информация теряет свою ценность в результате конечной памяти объекта, то, очевидно, существует оптимальный объем информации, при котором старая и новая информация обладают максимальной ценностью.

Это значит, что имеется возможность наилучшим образом выбрать необходимое число точек (объем информации), с наименьшей погрешностью приближающее принятую структуру модели к экспериментальным данным [8, с. 68].



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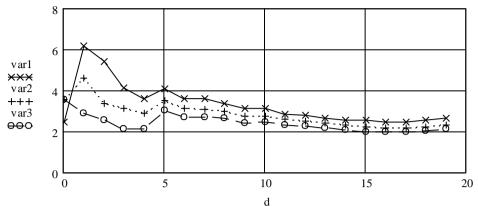
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Зависимость остаточной дисперсии от объема информационного массива

На основании изложенного можно сделать вывод о том, что для оценки нестационарных коэффициентов математической модели необходимо использовать ограниченный объем матрицы X(n) и вектора Y(n), минимизирующий остаточную дисперсию.

В этом случае на определенном интервале времени, когда остаточная дисперсия минимальна, характеристику объекта можно считать линейной, а коэффициенты математической модели постоянными.

Отклонение текущих значений параметров от гипотетического среднего будет оказывать значительное влияние на оценку модели объекта, увеличивая точность прогнозирования [9, с.78]

практической оценке точности прогнозирования, определяемой требованиями технологических регламентов промышленных объектов и принципами организации сбора информации, достаточно надежные результаты дает критерий [10, с. 56]:

$$\left| y_{me\kappa} - y_{Mod} \right| \le \varepsilon,$$
 (7)

где є – требуемая точность прогноза выходной переменной, утек – текущее значение выходной переменной, умод – расчетное по модели значение выходной переменной.

Заключение

Предложенный алгоритм краткосрочного прогноза позволяет оперативно осуществлять на оптимального объема регулярно информации обновляющейся идентификацию моделей технологических объектов. прогнозирование их развития и непрерывный поиск оптимальных режимов при управлении.

Данный алгоритм использовался разработке системы оптимального управления процессом прокалки кокса, позволяющей стабилизировать качество получаемого продукта, снизить угар и минимизировать суммарные потери при заданной производительности печи.

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Issue



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THE PROBLEM OF SUPPRESSING NONLINEAR OSCILLATIONS OF A PLATE

Abstract: In this work, the problem of joint nonlinear oscillations of an elastic plate with a dynamic absorber is considered. The material of the plate has the property of elastic dissipation of the hysteresis type; a dynamic absorber with a viscous elastic element is installed on it. A mathematical model of the systems under consideration is obtained, and the transfer function of the plate is determined for the purpose of studying the dynamics and evaluating the damping efficiency.

Key words: Plates, solutions, equations, vibrations, absorber.

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ЗАДАЧА О ГАШЕНИИ НЕЛИНЕЙНЫХ КОЛЕБАНИЙ ПЛАСТИНКИ

Аннотация: В этой работе рассмотрена проблема совместных нелинейных колебаний эластичной пластинки с динамичным гасителем. Материал пластинки имеет свойство эластичной диссипативности типа гистерезис, ему установлен динамичный гаситель с вязким эластичным элементом. Получен математическая модель рассматриваемой систем, а также с целью изучения динамики и оценки эффективность гашения определена передаточная функция пластинки.

Ключевые слова: Пластинки, решений, уравнений, колебания, гаситель.

Введение

Бурное развитие современной техники и технологий, гашение вредных колебаний в оборудовании машинах механизмах, И устройствах, применяемых областях машиностроения, авиации, судостроения, промышленного производства и строительства, изучение их динамики и приоритетов, разработка выводов и рекомендаций является одним из актуальных проблем.

По вопросам гашения вредных колебаний механических систем с различными видами с

накопленной и распределенной массы проведено множество научных исследований, созданы математические модели новых типов динамических гасителей и разработаны рекомендации по их применению [1-9].

В данной работе рассмотрен вопрос исследования поперечных колебаний пластины с динамическим гасителем, полученным в гистерезисном типе упруго-диссипативных характеристик материала.

Система дифференциальных уравнений совместного движения пластины с установленным



на ней динамическим гасителем выглядит следующим образом:

$$\frac{\partial^2 M_x}{\partial x^2} + 2 \frac{\partial^2 M_{xy}}{\partial x \partial y} + \frac{\partial^2 M_y}{\partial y^2} - \\ -(c\xi + b\dot{\xi})\delta(x - x_0)\dot{\delta}(y - y_0) = \rho h \frac{\partial^2 w_a}{\partial t^2}; \qquad (1) \\ m_0 \frac{\partial^2 w_a(x_0, y_0)}{\partial t^2} + m_0 \frac{\partial^2 \xi}{\partial t^2} + c\xi + b\dot{\xi} = -m_0 \frac{\partial^2 w_0}{\partial t^2} \\ \text{где } M_x \quad , \quad M_y - \quad \text{изгибающие моменты; } M_{xy} \\ \text{крутящий момент; } c, \quad 6 \quad - \quad \text{единица упругого} \\ \text{элемента и коэффициент вязкости динамического} \\ \text{гасителя; } m_0 - \quad \text{масса динамического гасителя; } x_0 \, , \\ y_0 - \quad \text{координаты точки установки динамического} \\ \text{гасителя; } w_0 - \quad \text{смещение} \quad \text{основания; } w_a - \quad \text{абсолютное} \quad \text{перемещение} \quad \text{пластины; } \xi - \quad \text{смещение динамического} \\ \text{гасителя относительно} \\ \text{пластины; } \rho \cdot \quad \text{плотность материала пластины; } h - \quad \text{толшина пластины.}$$

Рассчитаем моменты для пластины с упругими диссипативными характеристиками гистерезисного типа [10]

of ordinal [10]
$$M_{x} = \int_{-\frac{h}{2}}^{\frac{h}{2}} \sigma_{x}zdz,$$

$$M_{y} = \int_{-\frac{h}{2}}^{\frac{h}{2}} \sigma_{y}zdz,$$

$$M_{xy} = \int_{-\frac{h}{2}}^{\frac{h}{2}} \sigma_{xy}zdz$$

$$M_{xy} = \int_{-\frac{h}{2}}^{\frac{h}{2}} \sigma_{xy}zdz$$
(2)

где z — ось, перпендикулярная пластине; σ_x , σ_y , σ_{xy} — нормальные и касательные напряжения.

Определим напряжения следующим образом [9]:

$$\sigma_{x} = -\frac{E_{x}}{1-\mu^{2}} \left(\frac{\partial^{2} w_{ik}}{\partial x^{2}} + \mu \frac{\partial^{2} w_{ik}}{\partial y^{2}} \right);$$

$$\sigma_{y} = -\frac{E_{x}}{1-\mu^{2}} \left(\frac{\partial^{2} w_{ik}}{\partial y^{2}} + \mu \frac{\partial^{2} w_{ik}}{\partial x^{2}} \right);$$

$$\sigma_{xy} = -\frac{G_{xyz}}{1+\mu} \frac{\partial^{2} w_{ik}}{\partial x \partial y}.$$
(3)

где μ —-коэффициент Пуассона; $E_x = E(1-L_{1x}+jL_{2x}); E_y = E(1-L_{1y}+jL_{2y}); G_{xy} = G(1-N_1+jN_2); <math>j^2 = -1;$ Е, G - модули Юнга; $L_{1x} = \eta_1 f_x(z); L_{2x} = \eta_2 f_x(z); L_{1y} = \eta_1 f_y(z); L_{2y} = \eta_2 f_y(z); N_1 = \nu_1 g(z); N_2 = \nu_2 g(z);; \eta_1, \eta_2, \nu_1, \nu_2$ -коэффициенты линеаризации; $f_x(z)$, g(z) являются выражениями декрементов колебаний и записываются следующим образом:

$$f_{x}(z) = \sum_{l=0}^{r} C_{l} \left| \frac{\partial^{2} w_{ik}}{\partial x^{2}} + \mu \frac{\partial^{2} w_{ik}}{\partial y^{2}} \right|^{l} |z|^{l};$$

$$f_{y}(z) = \sum_{l=0}^{r} C_{l} \left| \frac{\partial^{2} w_{ik}}{\partial y^{2}} + \mu \frac{\partial^{2} w_{ik}}{\partial x^{2}} \right|^{l} |z|^{l}; \qquad (4)$$

$$g(z) = \sum_{l_1=0}^{n_0} K_{l_1} \left| \frac{\partial^2 w_{ik}}{\partial x \partial y} \right|^{l_1} |z|^{l_1},$$

где \mathcal{C}_{l} , \mathcal{K}_{l_1} — экспериментально определенные параметры.

Подставив выражения (3) и (4) в выражения моментов (2), в результате получим следующее:

$$\begin{split} M_{x} &= -DV_{1} \left[1 + 3(j\eta_{2} \\ &- \eta_{1}) \sum_{l=0}^{r} C_{l} |V_{1}|^{l} \frac{h^{l}}{2^{l}(l+3)} \right]; \\ M_{x} &= -DV_{2} \left[1 + 3(j\eta_{2} \\ &- \eta_{1}) \sum_{l=0}^{r} C_{l} |V_{2}|^{l} \frac{h^{l}}{2^{l}(l+3)} \right]; \\ M_{xy} &= -DV_{3}(1-\mu) [1 + 3(-\eta_{1} \quad (5) \\ &+ j\eta_{2}) \sum_{l_{1}=0}^{n_{0}} K_{l_{1}} |V_{3}|^{l_{1}} \frac{h^{l_{1}}}{2^{l_{1}}(l_{1}+3)} \right], \\ \text{где } D &= \frac{Eh^{3}}{12(1-\mu^{2})} \text{- пилиндрическая жесткость}; \\ V_{1} &= \frac{\partial^{2} w_{ik}}{\partial x^{2}} + \mu \frac{\partial^{2} w_{ik}}{\partial y^{2}}; \\ V_{2} &= \frac{\partial^{2} w_{ik}}{\partial y^{2}} + \mu \frac{\partial^{2} w_{ik}}{\partial x^{2}}; \\ V_{3} &= \frac{\partial^{2} w_{ik}}{\partial x \partial y}. \end{split}$$

Если вычислить частные производные второго порядка в выражениях моментов (5) и подставить их в систему уравнений (1), то получим следующее:

$$\begin{split} D\left(\frac{\partial^{4}w_{ik}}{\partial x^{4}}+2\frac{\partial^{4}w_{ik}}{\partial x^{2}\partial y^{2}}+\frac{\partial^{4}w_{ik}}{\partial y^{4}}\right)+3D(j\eta_{2}-\eta_{1})\cdot\\ \cdot\sum_{l=0}^{r}C_{l}|V_{1}|^{l}\frac{h^{l}}{2^{l}(l+3)}\left[\frac{\partial^{2}}{\partial x^{2}}(V_{1}|V_{1}|^{l})+\frac{\partial^{2}}{\partial x^{2}}(V_{2}|V_{2}|^{l})\right]+\\ +6D(1-\mu)(-\nu_{1}+j\nu_{2})\times\\ \times\sum_{l_{1}=0}^{n_{0}}K_{l_{1}}|V_{3}|^{l_{1}}\frac{h^{l_{1}}}{2^{l_{1}}(l_{1}+3)}\frac{\partial^{2}}{\partial x\partial y}(V_{3}|V_{3}|^{l_{1}})-\\ +\rho h\frac{\partial^{2}w_{ik}}{\partial t^{2}}-\\ -(c\xi+b\dot{\xi})\delta(x-x_{0})\delta(y-y_{0})=-\rho h\frac{\partial^{2}w_{0}}{\partial t^{2}};(6)\\ m_{0}\frac{\partial^{2}w_{ik}(x_{0},y_{0})}{\partial t^{2}}+m_{0}\frac{\partial^{2}\xi}{\partial t^{2}}+c\xi+b\dot{\xi}\\ =-m_{0}\frac{\partial^{2}w_{0}}{\partial t^{2}}. \end{split}$$

Решение системы уравнений (6) ищем следующим образом:

$$w_{ik}(x,y) = \sum_{i=1}^{\infty} \sum_{k=1}^{\infty} u_{ik}(x,y) q_{ik}(t), \qquad (7)$$



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где q_{ik} - функция времени, $u_{ik}(x,y)$ являются формами частных колебаний пластины, удовлетворяющих следующему уравнению:

$$D\left(\frac{\partial^{2}}{\partial x^{2}} + \frac{\partial^{2}}{\partial y^{2}}\right)\left(\frac{\partial^{2} u_{ik}}{\partial x^{2}} + \frac{\partial^{2} u_{ik}}{\partial y^{2}}\right) - \rho h p_{ik}^{2} u_{ik}$$

$$= 0, (8)$$

где $u_{ik} = u_{ik}(x, y)$; p_{ik} -собственные частоты. Подставляя решения (7) в систему уравнений

(6) и учитывая уравнение (8), получаем

$$\sum_{i=1}^{\infty} \sum_{k=1}^{\infty} \{u_{ik}\ddot{q}_{ik} + \{[1 + C_0(-\eta_1 + j\eta_2)]u_{ik} + \frac{3D}{\rho h p_{lk}^2}(-\eta_1 + j\eta_2) \sum_{l=1}^r C_l q_{lka}^l \frac{h^l}{2^l(l+3)} \times \\ \times \left[\frac{\partial^2}{\partial x^2} (\alpha_1 |\alpha_1|^l) + \frac{\partial^2}{\partial x^2} (\alpha_2 |\alpha_2|^l) \right] + \\ + \frac{6D(1-\mu)}{\rho h p_{lk}^2} (-v_1 + jv_2) \times \\ \times \sum_{l=1}^{n_0} K_{l_1} q_{lka}^{l_1} \frac{h^{l_1}}{2^{l_1}(l_1+3)} \frac{\partial^2}{\partial x \partial y} (\alpha_3 |\alpha_3|^{l_1}) + \\ + \frac{2D(1-\mu)}{\rho h p_{lk}^2} K_0(-v_1 + jv_2) \times \\ \times \frac{\partial^2}{\partial x \partial y} (\alpha_3) \} p_{lk}^2 q_{lk} \} - \frac{c\xi + b\dot{\xi}}{\rho h} \delta(x \\ -x_0) \delta(y - y_0) = -\frac{\partial^2 w_0}{\partial t^2}; \\ u_{lko} \ddot{q}_{lk} + \ddot{\xi} + n^2 \xi + f_0 \dot{\xi} = -\frac{\partial^2 w_0}{\partial t^2}, \\ 3 \text{десь} \quad \alpha_1 = \frac{\partial^2 U_{lk}}{\partial x^2} + \mu \frac{\partial^2 U_{lk}}{\partial y^2}; \quad \alpha_2 = \frac{\partial^2 U_{lk}}{\partial y^2} + \\ \mu \frac{\partial^2 U_{lk}}{\partial y^2}; \quad \alpha_3 = \frac{\partial^2 U_{lk}}{\partial x \partial x}, \quad q_{lka} = |q_{lk}|; \quad n = \sqrt{\frac{c}{m_0}}; \\ u_{lk0} = u_{lk}(x_0, y_0).$$

метод Бубнова - Галёркина к Применяя системе уравнений (9), запишем его в следующем виде:

$$\ddot{q}_{ik} + [1 + (c_0 + T_1)(-\eta_1 + j\eta_2) + \\ + (T_1 + T_2)(-\nu_1 + j\nu_2)]p_{ik}^2q_{ik} - \\ -d_{3ik}u_{iko}(c\xi + b\dot{\xi}) = -d_{ik}\frac{\partial^2w_0}{\partial t^2};$$

$$u_{iko}\ddot{q}_{ik} + \ddot{\xi} + \eta^2\xi + f_0\dot{\xi} = -\frac{\partial^2w_0}{\partial t^2}, (10)$$
 где
$$T_1 = \frac{_{3D}}{d_{2ik}\rho hp_{ik}^2}\sum_{l=1}^r C_lq_{ika}^l\frac{h^l}{2^l(l+3)}G_{ikl};$$

$$G_{ikl} = \iint\limits_{(s)}u_{ik}\left[\frac{\partial^2}{\partial x^2}(\alpha_1|\alpha_1|^l) + \frac{\partial^2}{\partial x^2}(\alpha_2|\alpha_2|^l)\right]dxdy;$$

$$T_2 = \frac{2D(1-\mu)}{d_{2ik}\rho hp_{ik}^2}\sum_{l=1}^{n_0}K_{l_1}q_{ika}^{l_1}\frac{h^{l_1}}{2^{l_1}(l_1+3)}H_{ikl_1};$$

$$H_{ikl_1} = \iint_{(s)} u_{ik} \frac{\partial^2}{\partial x \partial y} (\propto_3 |\propto_3|^{l_1}) dx dy;$$

$$T_3 = \frac{2D(1-\mu)}{d_{2ik}\rho h p_{ik}^2} K_0 F_{ik}, F_{ik}$$

$$= \iint_{(s)} u_{ik} \frac{\partial^2}{\partial x \partial y} (\propto_3) dx dy;$$

$$dx = \iint_{(s)} u_{ik} dx dy; dx = \iint_{(s)} u^2 dx dx$$

$$\begin{split} d_{1ik} &= \iint\limits_{(s)} u_{ik} dx dy \; ; \; d_{2ik} = \iint\limits_{(s)} u^2{}_{ik} dx dy \; ; \\ d_{ik} &= \frac{d_{1ik}}{d_{2ik}} ; \; d_{3ik} = \frac{1}{\rho h d_{2ik}}. \end{split}$$

Применяя оператор Лапласа к определенной системе уравнений (10), получаем систему алгебраических уравнений. В результате его решение имеет следующий вид:

$$\begin{split} q_{ik} &= -\frac{1}{\Delta S} \frac{\partial^2 w_0}{\partial t^2} [d_{ik}(S^2 + n^2 + f_0 S) + \\ &\quad + d_{3ik} u_{ik}(c + b S)] \\ \xi_{ik} &= -\frac{1}{\Delta S} \frac{\partial^2 w_0}{\partial t^2} [S^2 + [1 + (c_0 + T_1)(j\eta_2 - \\ &\quad - \eta_1) + (T_3 + T_2)(-\nu_1 + j\nu_2)] p_{ik}^2 + u_{ik0} d_{ik} S^2] \end{split}$$

$$\text{TIDE} \\ \Delta S &= [S^2 + [1 + (C_0 + T_1)(-\eta_1 + j\eta_2) + \\ &\quad + (T_3 + T_2)(-\nu_1 + j\nu_2)] p_{ik}^2] [S^2 + n^2 + f_0 S] \\ &\quad + u^2_{ik0} d_{3ik} S^2(c + b S); \\ S &= \frac{d}{dt} = j\omega. \end{split}$$

Определим передаточную защищенной от рассматриваемых пластины, колебаний Для этого запишем абсолютное ускорение следующим образом

 $\ddot{w}_a = \ddot{w}_{ik} + \ddot{w}_0,$ $\ddot{w}_0 = \frac{\partial^2 w_0}{\partial t^2}.$ (13)

где

Из (13) передаточную функцию запишем в следующем виде:

$$W_{ik}(S, x, y) = 1 + \frac{u_{ik}S^2 q_{ik}(S)}{\ddot{w}_0}.$$
 (14)

Переходя с переменной С к переменной ω и учитывая выражения (11), можем написать передаточную функцию пластины, защищенной от колебаний (14)

$$W_{ik}(j\omega, x, y) = 1 + \frac{A_1 + jA_2}{B_1 + jB_2} u_{ik}, \quad (15)$$

где

$$A_{1} = -d_{3ik}u_{ik0}c - d_{ik}(n^{2} - \omega^{2});$$

$$A_{2} = -d_{ik}f_{0}\omega - d_{3ik}u_{ik0}b\omega;$$

$$B_{1} = \left[-\omega^{2} + \left[1 - (C_{0} + T_{1})\eta_{1} - (T_{3} + T_{2})\nu_{1}\right]p_{ik}^{2}\right] \cdot \left[n^{2} - \omega^{2}\right] - u^{2}{}_{ik0}d_{3ik}\omega^{2}c - \left[(c_{0} + T_{1})\eta_{2} + (T_{1} + T_{2})\nu_{2}\right]p_{ik}^{2}f_{0}\omega;$$

$$B_{2} = \left[-\omega^{2} + \left[1 - (c_{0} + T_{1})\eta_{1} - (T_{3} + T_{2})\nu_{1}\right]p_{ik}^{2}\right] \cdot f_{0}\omega - \left[(C_{0} + T_{1})\eta_{2} + (T_{1} + T_{2})\nu_{2}\right]p_{ik}^{2}[n^{2} - \omega^{2}] - u^{2}{}_{ik0}d_{3ik}b\omega^{3}.$$

Полученная передаточная функция анализировать позволяет при различных значениях параметра динамику пластинки



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защищенной от колебаний, оценить эффективность динамического гасителя.

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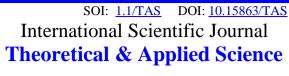
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«EMERGENCY SITUATION» AND SOCIAL PAIN IN THE WORKS OF MIRZO KENJABEK

Abstract: This article analyzes Mirzo Kenjabek's work based on the autobiographical method. In this, mainly the poet's "hasbi hol" poems were analyzed, and his poems with social problems were also analyzed.

Key words: Mirzo Kenjabek, translator «hasbi hol» poems, autobiographical method.

Language: English

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Introduction

Mirzo Kenjabek (Kenjaboev), a talented poet, skilled translator, honest publicist, was born in 1956 in the village of Mehnat, Sariosia district, Surkhondarya region. He graduated from high school and studied at the Tashkent State Medical School. It was the intense and fiery years of his studentship that allowed him to mature and realize his feelings, which he turned to poetry from childhood. It would not be wrong to say that the intense life on the campus, fiery lectures of teachers and most importantly, the hot life around him were the factors that sharpened his pen.

Mirzo Kenjabek, who entered the world of poetry in the early 80s, soon proved that he is a poet with his own "way" and his own "saying". His poetry collections such as "My letters", "The house facing the sun", "Munojot", "Sharq tili" allow us to draw such a conclusion.

"In the 1980s, a number of talented young people entered Uzbek literature. They managed to say their words boldly in this difficult time. And the "activists" who lived with the stagnant thoughts of the recession years wanted to accuse their voice of being rough, complicated, and unpolished. But time has proven that their poetry is far from formality, the pains of the people's hearts are expressed in folk tunes, in dark artistic costumes, and through deep symbols."[1]

If we examine the poet's work with an autobiographical method, I think that it will help us to

some extent to illuminate his life path and clarify his unique creative style.

In understanding and analyzing the work of the poet, his "hasbi hol" poems play an important role. One of such poems of Mirzo Kenjabek is called "My Sister's Letter".

Missing my sister John is a river of imagination for me.

He wrote a letter in absentia because of the colors.

"You know, Malohat's mother gave birth to a son.

You know... We lost Baba Saidnazar."

The bloody dawn of the evening flickers in my eyes,

Here are the tired school children on the way. Every line and every word of my sister's soul cries

Fields where I can sing for a lifetime. [2]

It is understood from the poet's lines that the wide fields made him a poet, the clean rural landscapes, friendly people and most importantly, the "one love"-talent that God pleased him to write poetry. Longings and dreams shake the poet's heart. Longing turns a young man named Mirzo Kenjabek into a talented poet:



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One birth, one death endless joy and torture, This letter is enough to drive me crazy for a long time.

This crazy world is waiting for thousands of babies every day,

He puts thousands of lifeless bodies on the ground every day.

As my little sister wrote, maybe I'll bring it home,

A dream fades or blossoms or opens like a flower.

Anyway, I will go ahead without turning back This word burns in a pure wish:

"White doves flock to the blue face,

He gives letters to distant people and brings letters.

I have a brother who is studying in a distant city. One day he will become a great poet. [3]

The poem written in 1978 serves to clarify the goals of the future poet: "No matter what, I will go forward without turning back." The goals of the future poet are combined with the white dreams of the sister in the village.

"We believe that the virgin thoughts of a second-grader about his brother will come true:

I have a brother who is studying in a distant city. One day he will become a great poet...

Analysis of Subject Matters

Although these lines found their readers ten years later, they have not lost their charm. The childhood sincerity shines in the first poems of the poet, in which romantic elation is gradually replaced by thoughtfulness and thoughtfulness. The poet sometimes wants to give the black and white images of life in mixed colors by means of deep symbols. He builds the basis of the poem in the center of contradictions and disputes, and in this way he transfers the enigmatic images of the world into mixed colors" [4]

"Hasbi hal" poems play an important role in defining the main idea of the poet's outlook and creativity. Babur's heart knots in "Baburnoma", Furqat's and Muqimi's hasbi hol poetry act as a key to understanding and feeling the hearts of these poets.

The poetry of Hasbi Khollik plays an important role in determining the direction of Mirzo Kenjabek's work. For example, one of such poems is a poem titled "Nigoh" dedicated to his son Babur. The volume of the poem is very short, eight lines, and the burden it carries served to fulfill a great task. The poem begins like this:

Years will come, many long years, You are tired of dreaming. Nechuk said, memories are blowing, You will hold the book of my life.

I need neither peace nor emigration, You understand, without doubt: Baby, I live in a world of tricks I burst out laughing.[5]

Lines separated by separate italics are important in understanding and feeling the value of the poet's work and personality. These lines remind us of the words of Elbek Bakhsh from Osman Azim's series "Bakhshiyana": "Saying these words, Elbek Bakhshi looked directly at the sun, and his eyes did not shed tears."

Research Methodology

Mirzo Kenjabek and the poets of the generation of the 80s are poets who face reality. These views have caused great losses for many people.

Another of the "hasbi hol" poems in the poet's work is called "Surkhan's Gardens" and it is dedicated to Sirojiddin Sayyid, a poet and compatriot of Mirza Kenjabek. Letters occupy an important place in Mirzo Kenjabek's work. For example, in the poem "Singlim's Letter" and "In the Gardens of Surkhan" we come across the details of the letter:

Apricot blossomed in the gardens of Surkhan, Our south has come to spring. Like the leaves of flowers in the wind of days, Fragrant letters flying...[6]

No poet has yet described a letter as a "fragrant letter". The letter brings a "fragrant" pleasant smell, a pleasant message to the poet from the motherland.

In the poem, the old woman Aikhol, who sold her garden waiting for her sons who went to the front, misses Ismat, who is serving in the military in Germany, without knowing the news of his deceased father, the childless old man Egamberdi, who is scolded if he dies. the introduction of artistic details such as "seven" and "forty" to himself, fearing to stay, imposes a unique pain on the poem.

At the end of the poem, the poet concludes the poem with a philosophical summary:

Apricots bloomed in the gardens of Surkhan, How are lives falling like flowers? I think of you, tree of my life, Are the veins holding you back?!

My life, your moments flew like a crane, Are those cranes still alive? The gardens of Surkhan were filled with blue, Apricot blossoms in the gardens of Surkhan.[7]



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The poet's feelings of longing for his native village, where his navel blood dripped, are combined with philosophical observations about human life.

This poem by Mirzo Kenjabek was published for the first time in "Yoshlik Bayaz". [8] M. Azimov, the correspondent of "Surkhan Tongi" newspaper, who reacted to him, wrote:

The journalist first quoted two verses from M.Kenjabek's poem "A plum blossomed in the gardens of Surkhan" and said, "these verses are from the "Yoshlik Bayozi" complex of Mirzo Kenjaboev, another young and talented Surkhandarya penman. These are the first and last quatrains of the poem dedicated to Sirojiddin Sayidov. These lines themselves testify to the richness of the artist's soul, his ability to express his feelings with great artistic pleasure and skill. In this poem, which is not too big, the young poet tells about village life, various related destinies, people's sorrows and daily worries, as a village boy who was born and grew up in the city., expresses his great love and endless longing for the place where he spent his best moments."[9]

Mirzo Kenjabek, whether we call it a genre of a letter or a detail of a letter, being faithful to this tradition, continues the tradition of letters in his lyrics, this time he writes a letter to Ulash grandfather, a participant in the Second World War. This letter poem is called "Arrow".

trust me
You are not alone, father.
He suffered from a bullet in his body.
trust me
I have a bullet in my body -

It shook my chest.[10]

The year 1980 is written at the end of this poem. So, the people of poets are one step ahead of ordinary citizens. He suffered from deprecations and insults in the society. The chest is about to burst from these pains. Can the society at that time be expressed more than this? How much skill is required from the poet for this. This is how the poet expressed his feelings and described the society in a time when deception and betrayals and bribery have reached the peak, when a person cannot trust anyone but himself. The poet is thinking about "the restless ghost of a peaceful time". The poem is written in the form of an appeal to the father who left "a piece of the massacre years..." in his heart. Even when this fighter goes through airport control, the magnet rings

Patience ends! The whole life of a child-poet resounds with this complication - pain! The poem ends with very convincing, figurative verses:

You have a shot in your body, I have a bullet in my body! [11]

These are the emotions of people who are fed up with society, who are hard-pressed, who are ready to explode after seeing deception and betrayal..

As long as every poet lives in society, he cannot be free from the problems of society and its social problems. It is impossible to find a poet who wrote only pure lyrics. Because the artist who lived in the society cannot be freed from its problems.

In the words of Doctor of Philology, Professor Begali Kasimov, "In this period (the 20th century is meant - S.A.) literature fell from heaven to earth. Literature has never been so close to the pain of the people. [12]" This tradition, which was started by our ancestors in the beginning of the 20th century, was boldly continued by the poets of the next generation. Rather, I don't want to dwell on how right or wrong it is to put social pain on the shoulders of pure poetry and literature, but the intellectual awakening that began in the 60s it is said that it served as a wave that awakened the society until independence.

"The characteristic feature of their work is selfless citizenship. Their main goal is to draw the image of a person who lives with the worries of his life and land in unique artistic colors. In this sense, they are increasing their activity in all aspects of reconstruction... Mirzo Kenjabek is one of the passionate poets who strives to put people's hearts in his best poems. Clear feelings and solid verses in his poems from his early collections "Letters" and "House Facing the Sun". Oriental graces announced the buds of talent that could be opened in the future. Poems from the collections "Munojot" and "Sharq Tili" bring a wonderful freshness to the hearts as green leaves grown from this bud.[13]

For example, the poet's collection "Munojot" begins with a poem filled with feelings of confidence in the future, with great feelings of confidence that bright days will come:

My mind is clear, my boundless property -

My nights are bright.

Morning is bright, my poet, because

Because, my dear, your eyes are bright.[14]

In "Munojot" we also have "one proofreading mark" in the poem "Correctura", which was included in the collection of my first "Letters", ready to end the small deficiency of life, flying birds, not ordinary birds, "Birds of the Motherland" We know a social, active lyrical hero who knows that. "His pains are light." Because he is a "burning person" after a "bright dream" who wants perfection and beauty.[15]

By this time, concepts such as reconstruction and democracy have entered social life, but the feeling of anxiety that has formed in us prompts the lyrical hero to always be vigilant. It is not difficult to understand the concerns of the poet who lived in the "land of prohibitions", where everything cannot be said openly. For example, the poet:

I startled myself:

Open hearts are the salt of the world.

My tongue is the tip of the fire inside me,

My word is just the smoke of the flame! . [16]



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In general, in the poetry of this period and in the works of Mirzo Kenjabek, our creators realized early that until there is a revolution in the minds and hearts of people, until it is understood by the people, it will be very difficult to realize it in the society. Revolution and freedom cannot be exported, there must be a need for it in the society, a need of the soul:

Happened before the revolution in the country, The face is in the throat, in the cage of the heart: You are the revolution, O Ahmad Zahir. In Afghan folk music.

Savr... My body is riot, holiday, The green melody is shining from my eyes. Even if they accuse me of praise I welcome revolutions! [17]

The poet's social pain became stronger and more concrete from poem to poem, from line to line. The poem "The State of Weightlessness" written in 1985 is imbued with deep social pain. The logic that began with the fact that astronauts who fly into space are much lighter than their own weight in space is finally transferred to the ground:

Friends! Life on earth is hard, The tears in the eyes are heavy; Than the head on the shoulder The stone in the chest is heavy.

In weightlessness Flying moments It's up to them to defeat The sorrows of this world? [18]

So! The poet sings to himself with the accompaniment, in one curtain, trembling with pure feelings. But he didn't lose his rubo, he was surprised that he couldn't find the melody. In every poem, the poet thinks about the golden age, tomorrow, and sings passionately about the future. Therefore, in the quatrain called "Cavalry":

"Thinking of this happiest time, If I strike, my horse's whip will burn" he writes.

One of the poems worthy of the time, which forces the poet to think deeply, is called "Letter to James Aldridge about the strange Mongolian horse". A small Mongolian horse called Prezhivalsky horse joined the decorated horse for a walk... This horse, now known as Tak, carelessly pulled the children in the cart from side to side. This horse, who is used to writing, has sadness and restlessness in his eyes. Washed in the head, woman in the waist. There is an inscription on the board next to it: The price of a ride is 10 tyins. Unaware of this, the horse, who had not heard and could not read this inscription, carelessly pulled the salt-decorated izvo. The poem ends with this verse:

Wash. Submissive. So he lost Yavkur and Topori villages.

You will not miss this horse until you die Przewalski's verses!....

Analysis and results

Among Mirzo Kenjabek's equal generation, Usman Azim was one of the first to start a folk tune and a series of songs. It seems that ordinary people, lovers of fine taste poetry are tired of stereotypes, they welcomed such simple and at the same time very sincere melodies with great longing and longing. Influenced by his compatriot and peer, Mirzo Kenjabek also tried to make certain experiments in this way. It is the poet's folk poem "Alpomish's return to Boysun-Kungirat" that is dedicated to Usman Azim.

Alpomish, returning to his homeland after a long separation, witnesses oppression and injustice on the way. Without introducing himself, looking at the mountains, gardens, herds of goats, and trees, whose are these? - he asks, and comes: he pats the head of the one who says "Alpomish's" and rewards the one who says "Ulton's"...

I fed the shepherds, begging for mercy, He trembles, he cannot open his tongue, Who gave birth to this burro's tongue? Tell me, who do these pastures belong to? Grandpa Kultoy, whose are the grasses?

Who are the people with bowed heads? Who do these people belong to? .[19]

The emphasis in the lines is ours. If we pay attention to these verses, the poet is expressing his pains and unsaid thoughts in the Alpomish language. In any case, the poet can say. It is up to the reader to digest it. Incorporating such a great social pain into the lines, and reciting it in the language of Alpomish, a brave Uzbek pahlavi, gives the poem a special quality. Alpomish's return to his country, his words, has a symbolic meaning. Perhaps, it is not surprising that the poet felt from his heart that the moments of returning to the national identity and the spiritual revolution are near.

One of the unique poems of the poet is called "Prayer". Although this word fell out of use during the reign of the Shora Empire, it still lived in the hearts of people. The people went out praying to the Creator at night. He did not forget her. This process itself should be very secretive and secret. In the 1960s, A. Oripov returned this word to our people with the poem "Munojot", and by the 1980s, Mirzo Kenjabek also wrote a poem called "Munojot". Not only did he write a poem with the same name, but he also named his third collection "Munojot".

The lyrical hero suffers and cries for all his losses. Each stanza of the poem ends with a deep exclamatory question: "Whom shall I ask?" And finally, one stanza of the poem ends like this:

I cry with tears in my eyes, friends,



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Throw stones at your chest and cry, friends. Throw stones at my bosom and cry, friends, Who should I ask for my lost gods?!

Woe to the people who have lost their god and have no people to worship or worship. We tried to build a society of the poor and godless for almost a century. We told the rich to disappear, the poor increased, all those who called God were thrown out, they were exiled to Siberia, and the godless increased. This scene is a derivative of the 20th century bloodshed of the Shura kingdom.

In his poems in the spirit of "hasbi hol", Mirzo Kenjabek expressed his dreams and pains, which were kept in his heart and which he could not tell anyone. In his social poetry, he expressed the wounds and great pains left by this terrible century in bright images. Tired of the artificial barriers in society and banging his head against the wall, the poet finally left great poetry and devoted himself to the religious and educational direction.

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THEMATIC INTERPRETATION OF PROVERBS IN ENGLISH AND UZBEK LANGUAGES

Abstract: Proverbs are unique forms of the language in terms of form and content, and mainly show the specific features of this language in a wonderful way. This is the main aspect that increases the interest in learning this part of the language. Although a lot of research has been done in this area, this article shows how well the proverbs in English and Uzbek languages are thematically related to each other. Here, the division into topics is presented using examples that match each other in meaning.

Key words: proverb, categorization, thematic diversity, interrelationship.

Language: English

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Introduction

If we look at the history of each language, proverbs have been considered as an important language unit that speak about nation's traditions, culture, life experiences as well as desire and demonstrate sophistication, intelligence and logic of thinking with amazing power.

As a genre with compact form but deep content proverbs can help people to express their life, nature, man, family and society attitude, socio-political, spiritual-educational, moral-aesthetic and philosophical views. That's why they are very common for centuries during lively conversation and mutual speech relations, in artistic, historical and scientific works. Being such a special element in linguistics proverbs have always been investigated by linguists in both Uzbek and English languages. There are several interesting facts to be considered here. But we tried to work on another aspect of proverbs: categorization of proverbs according to the content by showing similarity in English and Uzbek languages.

Jennifer Speake in his book "The Oxford Dictionary of Proverbs" (Fifth edition, edited by Jennifer Speake, 2008.) distinguishes three main categories of proverbs. The first type includes abstract statements expressing general truth, such as

"Everything has an end" or "Blood is thicker than water". Proverbs which can be considered the second type are mostly taken from everyday life experiences; for instance, "A burnt child dreads the fire" and "Two heads are better than one". The last type comprises sayings based on wisdom and folklore. Like another fields health proverbs can be good examples for this category: "An apple a day keeps the doctor away", "Early to bed and early to rise makes the man healthy, wealthy and wise" [Jennifer Speake. The Oxford Dictionary of Proverbs: Fifth edition. – USA.: Oxford University Press, 2007. p.14.]. A special characteristic feature of this book is that all the proverbs are given in an alphabetical order (according to a particular word of each proverb) [Jennifer Speake. The Oxford Dictionary of Proverbs: Fifth edition. - USA.: Oxford University Press, 2007. p.14.].

Uzbek philologists T. Mirzaev, A. Musokulov and B. Sarimsokov collected Uzbek folklore proverbs in the book "Uzbek folk proverbs" ("Ozbek xalq maqollari", "Sharq", 2005.) and categorized them according to their content: Vatan va vatanparvarlik (fatherland and patriotism) East or West, Home is best (O'z uying - o'lan to'shaging), mehnatsevarlik va ishyoqmaslik (deligence and laziness), halollik va tekinxo'rlik (honesty and dishonesty), yaxshilik va



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yomonlik (good and evil), donolik va nodonlik (wisdom and ignorance) and etc [Mirzayev T., Musoqulov A., Sarimsoqov B. O'zbek xalq maqollari. T.: - Sharq, 2005. p.1-4.].

Analysis of Subject Matters

In the following we will reveal the thematic diversity and interrelationship characteristics of proverbs in English and Uzbek languages. In order to carry out this task we took thematic order of Uzbek proverbs which are taken from the book "Ozbek xalq maqollari" ("Uzbek folk proverbs").

Table 1.

Vatan va vatanparvarlik	Fatherland and patriotism
O'z yurtim - o'lan to'shagim.	East or West, Home is best.
O'zga yurtning gulidan,	 Dry rind at home is better than grilled meat
O'z yurtingning cho'li yaxshi.	abroad.
Jamoatchilik va xudbinlik	Public and selfishness
Birlashgan o'zar.	 Unity is strength.
Bir kalla — kalla,	Two heads are better than one.
Ikki kalla — tilla.	Two neads are better than one.
Mehnatsevarlik va ishyoqmaslik	Diligence and laziness
Gap desang, qop-qop,	He who can, does; he who cannot, teaches.
Ish desang, Ashtarxondan top.	• He that would eat the fruit must climb the tree.
Jon kuydirmasang, jonona qayda,	
Toqqa chiqmasang, do'lona qayda.	
Halollik va tekinxo'rlik	Honesty and parasitism
Mehnatingni halol qilsang, huzurini ko'rasan.	A clean mouth and an honest hand will take a man
Tayyor oshga bekovul.	through any land.
	• Where the carcase is, there shall the eagles be
	gathered together.
To'g'rilik va egrilik	Straightforwardness and deviation
Aybi borning tizzasi qaltirar.	 Honest men fear neither the light nor the dark.
	• He is wise who is honest.
To'g'rilik to'rga tortar, egrilik go'rga.	
Yaxshilik va yomonlik	Good and bad (evil)
 Daryoga yaxshilik qilsang, 	• Good deeds return to the house of the author.
Ajrini biyobondan topasan.	• He that mischief hatches, mischief catches.
Birovga choh qazisang, o'zing tusharsan.	
Yaxshi so'z va yomon so'z	Good word and bad word
Yaxshi gap bilan ilon inidan chiqadi.	• With a sweet tongue and kindness, you can drag
Yaxshiga otga qamchi kerakmas, yaxshi qizga	an elephant by a hair.
sovchi.	A word to the wise is enough.
Adolat, insof va insofsizlik	Justice, honesty, dishonesty/injustice
Adolat qilichi kesgan qo'l og'rimas.	• Though heaven fall, let justice be done.
	• A good conscience is a continual feast.
Insofli odam oshini yer, Insofsiz odam – boshini.	7. 11. 11. (9)
Do'stlik va dushmanlik	Friendship and hostility
Dushjmanimning do'sti — mening dushmanim,	• The enemy of my enemy is my friend.
Do'st ming bo'lsa ham — oz,	• There is no little enemy.
Dushman bir bo'lsa ham — ko'p.	
Tinchlik va notinchlik	Peace and war
Tinch elning bog'i gullar. Tinch la Market Ma	Peace makes plenty. Only Only
Tinch bo'lganga Xudo yor. Pari III	• Where there is peace, God is.
Botirlik va qo'rqoqlik	Boldness and warfear/cowardice
Qo'rqoq oldin musht ko'tarar.	Attack is the best form of defence.
Qo'rqoq o'lmasdan burun o'lar,	• Cowards die many times before their death.
O'likdan nima kutib bo'lar.	T
Tenglik va tengsizlik	Equality and inequality



 Ayol yerdan chiqqan emas, 	When Adam delved and Eve span, who was then
Erkak bolasi.	the gentleman?
Erkak ko'kdan tushgan emas,	
Ayol bolasi.	
O'lim shohu gadoga barobar.	Death is the great leveler.
Donolik va stupidity	Wisdom and ignorance
Daryo ko'rmay etik yechma.	• Don't cross the bridge until you come to it.
	• Stupidity won't kill you, but it can make you
Ahmoq kalla oyoq og'ritar	sweat.
Ilm, kasb-hunar, ilmsizlik	Knowledge, profession, ignorance
• Bilim — kuchda,	Knowledge is power.
Kuch — bilimda.	
Ilm olishning erta-kechi yo'q.	• It is never too late to learn.
Mardlik va nomardlik	Courage and baseness
Tiz cho'kib yashaguncha,	Better to die on your feet than live on your knees.
Tik turib o'lgan yaxshi.	 A man of courage never wants weapon.
	A man of courage never wants weapon.
Botir qilichsiz ham botir. Tarkiya ya adat	Education and many
Tarbiya va odat	Education and manner
• Yaxshi xulq – kishining husni.	Manners maketh man.
Tarki odat – amri mahol.	Old habits die hard.
Odob va odobsizlik	Morality and immorality
 So'z boshi – salom, ish boshi – intizom. 	Wisdom without morality is like a ring without a
Odobni odobsizdan o'rgan.	gem.
8	Learn good manners from those who don't have
	them.
Mehmon va mehmondo'stlik	Guest and hospitality
Chaqirilmagan qo'noq – yo'nilmagan tayoq.	Welcome as a storm.
 Mehmonxonang tor bo'lsa ham, Mehri diling keng 	
bo'lsin.	
	The Fairer the hostess, the fouler the reckoning.
Saxiylik va baxillik	Generosity and meanness
Baxildan tosh so'raguncha,	You cannot get blood from a stone.
Gadoydan osh so'ra.	
O'zi yemas, itga bermas.	A dog in the manger.
Go'zallik va xunuklik	Beauty and ugliness
 O'rdak o'ziga oro bersa ham, oqqush bo'lolmas. 	An ape's an ape, a varlet's a varlet, though they be
	clad in silk or scarlet.
Chiroy husn-u jamolda emas, fazl-u kamolda.	You can't tell a book by its cover.
Kamtarlik va manmanlik	Humility and vanity
Haddan oshiq kamtarlik manmanlikdir.	Too much humility is pride.
Kamtarga kamol, manmanga zavol.	100 mach hammity is pride.
- Kannarga Kamor, maninanga Zavor.	Pride leads to disgrace, but with humility comes
	Pride leads to disgrace, but with numility comes wisdom.
Doyt amad ve howtefalls	
Baxt, omad va baxtsizlik	Happiness, luck and misfortune
Bir kelsa qo'sha keladi.	Bad things come in threes.
 Taxting kulguncha, baxting kulsin. 	• It is better to be born lucky than rich.
Epchillik va noshudlik	Adroitness and feebleness
O'zing o'tirgan shoxni kesma.	Don't bite the hand that feeds you.
Imkon borida otni qamchila.	If life hands you lemons, make lemonade.
To'g'rilik va yolg'onchilik	Truth and lie
Lof bo'lmasa gap bo'lmaydi.	Ask me no questions, I'll tell you no lies.
- Dor oo masa gap oo mayar.	The path of a liar is short.
Volg'onning umri gicco	The paul of a fial is short.
Yolg'onning umri qisqa. Sahr ganaat ya sahrsizlik	Dations and impations
Sabr-qanoat va sabrsizlik	Patience and impatience
Sabr etgan – murodga yetgan.	ALL things come to those who wait.



•	Sabr tagi – sariq oltin.	Patience is a virtue.
	Mehr-oqibat va oqibatsizlik	Love, faithfulness and inconsistency
•	Ko'zdan yiroq – qalbdan yiroq.	Out of sight, out of mind.
•	Eski do'st – bu eng yaxshi ko'zgu.	The most faithful mirror is an old friend.
	Qadr-qimmat va qadrsizlik	Dignity, value and worthlessness
•	Yo'rg'aning qadri yelganda bilinar,	You never miss the water till the well runs dry.
	Yaxshining qadri o'lganda bilinar.	Milk the bull.
•	Echki boʻlsin, taka boʻlsin, suti boʻlsin.	
	Muhabbat va bevafolik	Love and unfaithfulness
•	O'z sevganing – o'zingga suluv.	Beauty is in the eye of the beholder.
	****	Wedlock is a padlock.
•	Vafosizga berilma, Vafolidan ayrilma.	
	Oila va qo'shnichilik	Family/origin/neighbourhood
•	Olmani tagiga olma tushadi.	The apple never falls far from the tree. It is a second to the sec
_	One-initedally simini at	Like mother, like daughter.
•	Onasini ko'rib qizini ol. Qarindosh-urug'chilik va begonalik	Kinship and stranger relations
•	Urug'-aymog'im – quyuq qaymog'im.	Blood is thicker than water.
	Uzoqdagi qarindoshdan yaqindagi qo'shni yaxshi.	• Blood is thicker than water.
•	Ozoquagi qarindoshdan yaqindagi qo siini yaxsiii.	A friend at hand is better than a relative at a
		distance.
	Farzand va farzandsizlik	Children and childlessness
•	Qora qo'ngiz ham bolasini oppog'im deydi.	Every mother thinks her own gosling a swan.
•	Bir bolaga yetti mahalla ota-ona.	It takes a whole village to bring up a child.
	Tajribakorlik va kaltabinlik	Skillfulness and slow-wittedness
•	Abjir bo'lsa farzanding, cho'ldan non terar,	All is grist that comes to his mill.
	Yalqov bo'lsa farzanding, yerdan don termas.	, and the second
•	Axmoq kalla oyoqqa dam bermas.	
		Stupidity won't kill you, but it can make you
	T. A. M	sweat.
	Ta'magirlik va ochko'zlik	Racketeering and greediness
•	Besh panjangni og'zingga solma.	Don't bite off more than you can chew. The state of
	Gadaga aharia harsana yamaaligini ham tilar	The more you get, the more you want.
-	Gadoga choriq bersang, yamoqligini ham tilar. Umid va umidsizlik	Hope and despair
•	Oyning o'n beshi qorong'u bo'lsa, o'n beshi	The darkest hour is just before the dawn.
	yorug'.	Where there's a will, there is a way.
•	Izlagan imkon topar.	where there's a win, there is a way.
	Ishonch va ishonchsizlik	Trust and distruth
•	Eshitganinggamas, ko'rganingga ishon.	Believe nothing of what you hear, and only half of
•	Haqiqat egiladi, bukiladi, lekin sinmaydi.	what you see.
		Truth will open.
	Erk va erksizlik	Freedom and unwillingness
•	Kiprigim ko'zimniki, nima qilsam o'zimniki.	Every tub must stand on its own bottom.
•	Qafasda sayragan bulbuldan, vayronada yashovchi	 Nightingales will not sing in a cage.
	boyqush yaxshidir.	
	Barqarorlik va beqarorlik	Decisiveness and indecisiveness
•	Ikki qayiqning boshini tutgan o'rtasida g'arq	Between two stools one falls to the ground.
	bo'lar.	He who hesitates is lost.
•	Qo'nimi yo'qning unumi yo'q.	77.4
	Ahillik va noahillik	Unity and division
•	Birlashgan o'zar.	Union is strength.
<u> </u>	Ko'pdan quyon qochib qutulmas. Or-nomus va nomussizlik	Many hands make light work. Honor and shamelessness
	OT-HOIHUS VA HOIHUSSIZIIK	monor and snamelessness



TT (21' 1 (4'	D (1' 'd 1 d 1' 'd 1
Uyat o'limdan qattiq.	Better die with honor than live with shame. If the first the first term is a second to the shame.
. V-?-11:-::1:4?4-1:	• If a man fools me once, shame on him; if he fools
Ko'r ham hassasini bir marta yo'qotadi. G'urur va xushomad	me twice, shame on me.
	Pride and flattery • Pride will have a fail.
Noo'rin g'urur – boshga balo.	
G'urur g'urbatga solar. G : : : : : : : : : : : : : : : :	Pride goes before, and shame follows after. The state of the
Samimiylik va nosamimiylik	Sincerity and insincerity
Asling kabi bo'l, Asling kabi bo'l, Asling kabi bo'l,	Be what you would seem to be. The second of the seco
Ko'z – ko'ngil darchasi.	The eyes are the mirror of the soul.
Andisha va andishasizlik	Conscience and shamelessness
Andishaning otini qoʻrqoq qoʻyma.	 Name not a halter in his house that hanged himself.
 Vijdon, tishsiz bo'lsa ham, jonni kemiris mumkin. 	stop barking.
Farosat va farosatsizlik	Quick-wittiness and unwittingness
Aqlli boshda soch turmas.	Long hair, short wit.
Jahl kelganda aql ketadi.	Ale in, wit out.
Sabab, bahona va natija	Reason, pretext and result
Salomiga yarasha alik.	Ask a silly question and you get a silly answer.
	A bad workman quarrels his tool.
O'zolmagan otga uzangi bahona.	<u> </u>
Samaradorlik va besamarlik	Efficiency and inefficiency; work
Bolaga ish buyur, orqasidan o'zing yugur.	Never send a boy to do a man's job.
Cho'pon ko'paysa, qo'ylar harom o'ladi.	Two boys are half a boy, and three boys are no boy
	at all.
Rizq-nasiba va benasiblik	Sustenance and deprivation of one's share
Ko'rpangga qarab oyoq uzat.	Cut your coat according to your cloth.
	Between the cup and the lip a morsel may slip.
Yutganim o'zimniki, chaynaganim gumonda.	The state of the s
Tejamkorlik va isrofgarchilik	Economy and wasting
Kam-kam yesang, doim yeysan.	Waste not, want not.
Har narsa o'z epi bilan.	• Enough is as good as a feast.
Naqd va nasiba	Cash and sustenance
Erta turgan yigitning rizqi ortiq, Erta turgan ayolning bir ishi ortiq.	He that will thrive must rise at five.
Nasiya saryog'dan, Naqd o'pka yaxshi.	• A bird in hand is worth two in the bush.
Ehtiyoj va zaruriyat	Needs and necessity
Qo'shning ko'r bo'lsa, ko'zingni qis.	One must howl with the wolves.
• Zarurat tushsa, zar to'kilar.	
	 Necessity makes the frog jump.
Reja va rejasizlik	Plan and planlessness
Rejasiz ish — qolipsiz gʻisht.	To be at sixes and sevens.
Avval otingni taqala, Keyin yo'l tanla.	 Cloak to make when it begins to rain.
Me'yor va me'yorsizlik	Measurement and immeasurableness
Har narsaning ozi – shirin.	Too much water drowned the miller.
Tan indoming OZI Sillilli.	The last drop makes the cup run over.
Tuya elakka qolgaanda oqsaydi.	The fast Grop makes the cup full over.
Qudrat va ojizlik	Power and weakness
Haq – kuch, Kuch – haq.	Might is right.
Qalam qilichdan o'tkir.	The pen is mighter than the sword
Foyda va zarar	Advantage and disadvantage
	Heads I win, tails you lose.
	Treads I will, talls you lose.
Echki bo'lsin, taka bo'lsin, suti bo'lsin.	Milk the bull.
Mas'uliyat va mas'uliyatsizlik	Responsibility and irresponsibility
Va'da gurug, bajarilsa – ulug'.	Promise little, but do much.



•	Bugungi ishni ertaga qo'yma.	•	Never put off till tomorrow.
	Taqdir va tadbir		Fate and fatalism
•	Taqdirning balosi ko'p, Saqlasa panosi ko'p.	•	Every Bullet has its billet.
•	Bo'ladigan bola boshidan ma'lum.		
		•	Coming events cast their shadows before.
	Vaqt va fursat qadri		Time and the value of time
•	Vaqtning qadrini bilmagan o'z qadrini bilmas.	•	What may be done at any time will be done at no
•	Temirni qizig'ida bos.		time.
		•	It is better to murder during time of plague.
	Imkon va imkonsizlik		Opportunity and impossibility
•	Bo'yingni yetmagan joyga cho'zma.	•	A man can do no more than he can.
•	Bir eshik ochiq bo'lsa, bir eshik yopiq.		
		•	Not the only pebble on the beach.
	Farovonlik va yetishmovchilik		Prosperity and poverty
•	Qorin to'qligi quturtirar.	•	Fat paunches have lean pates.
•	Tinchlik – farovonlik yo'ldoshi.	•	Peace makes plenty.
	Ehtiyotkorlik va ehtiyotsizlik		Prudence and carelessness
•	Avaylab uchmagan qush qanotidan ayrilar.	•	A full cup must be carried steadily.
•	Hushyorni yov bosmas, Yov bossa ham dov		
	bosmas.	•	Open eye sleep with one.
	Mamnunlik va afsuslanish		Satisfaction and regret
•	So'nggi pushaymon – o'zingga dushman.	•	Lock the stable door after the horse is stolen.
•	O'tgan gapga o'kinma.	•	It is no good crying over split milk.
	Tozalik, sog'lik va bemorlik		Cleanness, health and illness
•	Salomatlik – tuman boylik.	•	Good health is above wealth.
•	Sog'lom tanda – sog' aql.	•	A sound mind in a sound body.
	Dehqonchilik va chorvachilik		Farming and stock-rising
•	Barvaqt qilingan harakat,	•	Early sow, Early mow.
	Hosilga berar barakat.		•
•	Qor yog'di – don yog'di,	•	A year of snow, a year of plenty.
	Yomg'ir yog'di – osh yog'di.		, , , ,
	Sevinch va g'am		Joy and grief
•	G'amsiz oshim, da'vosiz boshim.	•	As jolly/happy as a sandboy.
•	Bolali uy – bozor,	•	A house without a dog, a cat, or a little child is a
	Bolasiz uy – mozor.		house without joy or laughter.
	To'y va motam		Wedding and funeral
•	Kimga – to'y, kimga – aza.	•	The Fiddle while Rome is burning.
•	O'lim hayot dushmani, Qaytib kelmas	•	Repentance comes too late.
	pushaymoni.		•
	Yoshlik va qarilik		Youth and old ages
•	Yosh kelsa – ishga, Qari kelsa – oshga.	•	Youth will serve.
•	Qarilik – bolalik.	•	Once a man, twice a child.
	Yo'l va yo'ldosh		Road and companion
•	Yo'lga chiqqan yo'ldan topar.	•	The primrose path.
•	Shoshmagan arava quyonga yetar.	•	Slow and steady wins the race.
	Hayvonlar va qushlar		Animals and birds
•	Qarg'a qarg'aning ko'zini cho'qimaydi.	•	Dog does not eat dog.
•	It hurar, karvon o'tar.	•	Dogs bark, but the caravan goes on.
	Yil fasllari va tabiat hodisalari		Seasons and natural phenomena
•	Qorong'u kun mangu bo'lmas.	•	After rain comes fair weather.
•	Kichik kalit katta uyni ochar.	•	Small rain lays great dust.
	Faqirlik va boylik		Wealth and poverty
•	Pul bo'lsa changalda sho'rva.	•	Money makes the pot boil.
•	Kambag'allik ayb emas.	•	Poverty is no sin.
	Amaldorlar va avom din vakillari		Officials and religious leaders
	AAAAAAAAAAA TOO O TUIL GIII TUILIIGII		OTTOMIN MIN TOTISTOMS TOMOGES



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ISI (Dubai, UAE)	= 1.582	РИНЦ (Russia)	= 3.939	PIF (India)	= 1.940
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- Bek gapirsa, bekniki ma'qul, Xon gapirsa xonniki.
- Podsho zolim bo'lsa yurt to'zar, Podsho olim bo'lsa yurt o'zar.
- God is always on the side of the big battalions.
- King go mad, And the people suffer from it.

Analysis and results

As we can see from the table, though both languages are very different in terms of structure, pronunciation, and lexicology, proverbs serve the same purpose in the languages we are working on: leading to good, avoiding evil, being kind, honest, diligent, hospitable and so on. Besides the given topics some English and Uzbek proverbs match each other in meaning. Here we can cite some topics as examples: o'xshashlik va farq/similarity and difference:

"Alixo'ja – Xo'jaali." ("Difference between tweedledum and tweedledee."), qiziquvchanlik va befarqlik/curiosity and indifference: "Yotgan ilonning quyrug'ini bosma." ("Let sleeping dogs lie."), hushyorlik va mastlik/soberness and drunkenness: "Mast kayf qiladi, O'zini hayf qiladi." ("As drunk as a fish.") and so on.

It should be noted that, proverbs, regardless of language, are an expression of people's customs, lifestyle, life experiences, and dreams.

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A COMPARATIVE STUDY OF PHRASEOLOGISMS WITH THEONYM COMPONENT UNITS

Abstract: In the article you will be aware of theonym component units and its linguistic research. Here theonyms is an example of the analysis of various works, that we found a lot of nickronyms in the book "King Arthur". Besides that, you will know the results of the observations showed the word goddess is rarely used in the lexicon of the Uzbek language, because if we look at the example of the Uzbek people, there is no female equivalent of the concept of God in the religious mind of the Uzbek or in the religious system itself. In language there are some problems with the translation of theological words in English, and to this day, English textbooks, such as dictionaries, have not been published specifically for theology. A word that has a different meaning in another field may have a different meaning in religious terminology in general.

Key words: phraseological units, analysis, words denoting evil, name of God, nickronyms, emotional evaluation, a spiritual, aesthetic, emotional nature.

Language: English

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Introduction

The issue of researching theonyms with the help of works is considered to be one of the problematic issues of great importance, the traditions of two unrelated languages in translation and the differences in illustrations cause the main problems. Nevertheless, valuable researches have been carried out in this regard in our linvocorpus. When we consider theonyms as an example of the analysis of various works, we found a lot of nickronyms (names of holy places) in King Arthur written by H. Gelbert.

Names of places: Church (fair church, Paul's church, Holly church); cemetery(gravemounts); cathedral(lolly place);

Theonym words or combinations related to personal names (phraseologisms expressed through them): priest or prestess-рухоний; archbishops — архиепископ (archbishops of London - Лондин архиепископлари, they are considered the highest class administrators of the church); bishops - a junior monk in a monastery, sometimes called a bishop.

Using the word Lord, meaning the name of God, instead of the name of an ordinary person: *Lord- the great lord and barons* used in the form means great lords and barons.

The use of the word *Christ* in its meaning: *Christ* shall die out of this fair land- Macux шу гўзал макони (оламни) тарк этади usually, this expression is characterized by the fact that good people have a good end;[1.18].

The occurrence of the names of Allah in various phraseological units (they denote more divine wishes): God so wills -Оллох шуни хоҳлайди; God's hand is drawing - Фақатгина оллоҳнинг құлидан келадиган (only he can do, usually his power is meant); Finish your prayer to God (to pray to God) — сиғинишингни якунла); God's book - Оллоҳнинг китоби (usually refers to holy books such as Holy Quran, Bible, Psalms); God shall decide - Оллоҳ қарор қабұл қилади (Point out that Allah is the greatest decision maker); God's will - Оллоҳнинг хоҳиши; high Heaven hath —Ҳуқумдор (the ruler of heaven, that is, Allah). For example: I think high



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Heaven hath chosen this way of showing young man is rightfull king of us all - Менимча бутун олам хукмдори бу ёш хаққоний қиролни танлаган хаммамизга;[1.16,19,23].

Divine wishes: Crave a book of you - Сиздан неъмат тилайман (usually asking for God or the Great Ruler); God blessing!-Оллох ёр бўлсин!

Words denoting evil: *evel powers* – *ёвуз кучлар* (in the information given above the combination is presented *evel spirits* –*ёвуз рухлар*). As you can see, we saw that the word Christ was used in its place in the work because it is being in higher position. *Lord* and other words refer to a certain group or people. We can continue the series of such examples.

Analysis of Subject Matters

The researcher M. Galieva explained the uniqueness of the religious mythological concept in its realization through the text and explained the structure of the concepts as follows:

- 1) getting rich due to encountering various transformations and acquiring new meaning and associations;
- 2) it can lose its system meaning and acquire the opposite meaning, changing the direction of emotional evaluation.

For example, Heaven (жаннат) although the concept has positive characteristics of a spiritual, aesthetic, emotional nature, Dj. In the context of Milton's work, it has taken on the opposite meaning, reflecting the negative symbols associated with the likes of slavery, tyranny, and tyranny. For example: tyranny of Heaven; highwill whom weresist; allruling Heaven; monarchin Heaven; forcedhalle lujahs; state of splendid vassalage, vassal sof hisanger.

Analogously, the concept of Hell, which associates only negative symbols in the human mind, was created by Dj Milton's. It is noted that Milton's work has earned a positive evaluation by embodying the concepts of freedom and independence. (shall be free; may reign secure; free and non eaccountable; hard liberty).

The results of the observations showed that the word goddess is rarely used in the lexicon of the Uzbek language, because if we look at the example of the Uzbek people, there is no female equivalent of the concept of God in the religious mind of the people or in the religious system itself. Word-forming derivatives have appeared from the word God: god, goddess, pagan, bozhba, divine. Along with God, Lord is used, but less often. It is also correct to use the phrase "the supreme provider" in the meaning of Allah. On the contrary, in this regard, the word goddess was used in some cases in literary genres, and it was considered as a consort, wife of some god or a creature belonging to that god. For example: How all the rest, as many as flied from sheer destruction were at home, and had escaped both war and sea, but Odysseus only, croving for his wife and for his

homeword path, that fair goddess, in her hollow caves, longing to have him for her lord[2.9] -Қолганларнинг ҳаммаси, вайронагарчиликдан, урушдан ҳамда денгиздан қочиб, ўз уйларига интилишарди, лекин фақат Одиссейгина ўзининг ўз йўлини қидириб, чуқур горларида ўша гўзал маъбудаларни лорди учун топишни орзу килар эди. In the above sentence, the word goddesses is mentioned, and it is emphasized that they do not exist in time and space, they are not visible but hidden beings. The word lord is used in the sense of ruler, king. In yet another example, the gods are interpreted as a polytheistic age, and the gods are described as obeying a single oligarchic god, Zeus: There he looked to receive his hecatomb of bulls and rams, there he made merry sitting at the feast, but the other gods were gathered in the halls of Olympian Zeus [1.10] -У ерда у ўзининг буқалар ва қўчқорлар қабрини олиш учун қаради, зиёфатда ўтириб хурсанд бўлди, аммо бошқа худолар Олимпия Зевснинг залларида тўпланишди. In the work Zeus called as Father God- Ota xudo, The Creator all of the Universe- amd called with compound expressions such as Lord Of the Heaven- само хукмдори

In the work cited above, the word Allah is used instead Goodlike, Good Father, Lord words togethe. Such as Zeus- Зевис. Athene- Aфина. Laertes – Лаэртес, Penelopa- Пенелопа, Dolius-Долиус, Antikle-Антиэкл, Cronos-Кронос names of gods and goddesses. It is clear from this that in the era of polytheism, people associated every earthly phenomenon with gods. In this regard, if we look at the Islamic culture or the pre-Islamic eras of God, we can be sure that the key terms and expressions widely used in the Holy Qur'an play a decisive role in forming the basic conceptual structure of the Islamic worldview. Over the centuries, several changes have taken place in the Holy Qur'an and this has led to Arabic terms deviating from their original meaning and creating new meanings. For example, in the pre-Islamic era, the word Allah was understood by the Arabs as a certain god among several gods, and sometimes it was understood as the person responsible for the creation of the heavens and the earth, and the maintenance of balance in them. He was one of the gods worshiped by the pagan Arabs. The advent of Islam gave this concept a completely different meaning. The Qur'an preached that God is supreme and unique, that is, there is only one God, denying all false "gods". The most important thing is that God is the main source of knowledge and the creator of mankind in the Qur'an, which arose from the first hadiths of the Prophet Muhammad. The word Allah is formed from the combination of the definite article aland the noun word ilah, which means God. [Mohammad Sadik, 2004; Toshihiko Izutsu, 1987]

Therefore, it is not difficult to believe that there was an era of polytheism before the introduction of Islamic and Christian cultures.



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Research Methodology

Since discourse analysis of texts within two languages is also of great importance, many problems are observed in translation issues:

There are some problems with the translation of theological words in English, and to this day, English textbooks, such as dictionaries, have not been published specifically for theology. A word that has a different meaning in another field may have a different meaning in religious terminology in general. For example, the general meaning of the word "heavenly" in English means "celestial", "bell", and in religious sources it means "heavenly", "divine", "holy". Such differences are not always reflected in the dictionary. Here, during our research, theonim were analyzed based on the following separations, considering the group affiliation of words and phrases. "A lexical field representing the concepts of words and phrases that have theonymic meaning in English." Words denoting religious divine or theonism and phrases made with their participation are usually gathered on the basis of one general concept, that is, the concept of religion. The lexical field of such words is mainly defined as consisting of 6 groups:

- 1. Superhuman beings and regions;
- 2. Religious knowledge;
- 3. Words expressing religious feelings that exist in the heart (Religious sentiments);
 - 4. Religious prayers, worship (Acts of religion);
 - 5. Religious rites;
- 6. Religious addresses, place names (Destinations)

The words in this group represent the generality of religion.

If we analyze these words semantically, we can clearly see the commonalities and differences that exist in them. For example, if we take the words *Diety*, *Angel*, *Satan*, *Demon* in the first group of Superhuman beings and regions, the commonality in them is their supreme existence, invisibility, but existence, liveliness. These three meanings are integral meaning elements in them. Now, if we come to the difference of meaning in the words, the totality of the supreme existence in them is different in terms of degree.

Analysis and results

During the analysis of the works, it was found that there are textual and non-contextual meanings of the word Heaven. For example: бехишт [ф] heaven. Сахий хор бўлмас, бахил бехиштга кирмас[3.225]; This phrase бехиштга кирмоқ is meaning entering heaven. Although the phrase "entering heaven" has already left the modern Uzbek language, it is often encountered in classical literature as a unit that means paradise. For example: Андин сўнг тангрининг амри бирлан Азроил келиб, Идрис алайхиссаломни парининг устига қуюб бехиштга олиб борди"[4.15]. In this sentence, to take to heaven has

the same meaning as to enter heaven. Or, the theonymic phrase "if he went, he went without coming", which is ingrained in the national consciousness of our people, is used in an inseparable way and means that a person went to heaven or hell after death. Борса келмас иборасини нарги дунё ибораси билан алмаштириш мумкин. For example: Икки юз кирк йил умридин ўтгандан сўнг ўгли Аблачахонни ўз ўрнига ултуртуб борса келмас тегин шахарга кетди"[4.15]. It is a situation that appears in the reader's mind when he is reading on his own whether the city in the phrase "barsa kelma" is either heaven or hell. The linguist researcher Sh. As stated by Mahmaraimova, we want to react as a unit belonging to the frame of "goodness". The scientist adds the word heaven to the frame of goodness of the theonymic lexicon, calling it theomorphic metaphors, as we mentioned in the above chapters. He included the word "hell" in the frame of "evil". There are phrases such as "to bring to heaven" and "to bring to heaven" in English. When the word heaven is given a direct definition, it means samo, blue: For example: Who brings me to the Heaven!? Who will take me to heaven!? In the phrase, the speaker may be interpreting the many sins that he has committed and his hopelessness from heaven. Or "Go to heaven in a string" can be found in some works of 1592. In a direct translation, it translates to go to heaven with a rope. In addition to this, expressions such as God cursed place or God cursed person are more widely used in the lexicon of the Uzbek language. For example: Шундай қилиб бу худо қарғаған жойдан чиқиб олдим (That's how I got out of this cursed place)[5.58]. In the below mentioned sentence худо қарғаған жой (cursed place) means хосиятсиз ёмон жой(a bad place without characteristics). In the creation of people's tounge we have come across many phrases like Сени худо қарғаган, Худони қарғишига учдайсан[from collocual). In this, the meaning of impersonality is reflected and represents a bad intention. In some literature, we find it in the form of an expression like cursed by Allah. In this case, the cursed refers to a person. But in all the above expressions lies evil and a closer meaning. In English, there are units that have a close meaning to these expressions. For example: He is from Hell or He has a devil is giving meaning У оллох томонидан лаънатланган от У дўзахий.

As a confirmation of our above mentioned thoughts, we should add that researcher M. Galieva noted that the conceptual space of *God* is closely related to the conceptual spaces of *light*, *heaven*, *goodness*, *virtue*, *sacred* and the conceptual space of the *devil* is closely related to such conceptual spaces as *devil*, *hell*, *darkness*, and *sin*. [6.16,17]. Another distinguishing feature of religious concepts is that he explained two types of cognitive models that are mutually contradictory. They are religious *αδαθυй* φαροεαm- eternal rest; θỹ3αx-hell – αδαθυй α3οδ-



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eternal torment and worldly (жаннат ва дўзах peradise and hell) formed models and can be built based on the principle of internal binary. According to concept heaven and hell religious cognitive models are expressed in terms that reflect religious ideas about eternal bliss or a place of eternal punishment for sinners: heaven - a dwelling place of perfect happiness for the soul after death; hell -the neither realm of the devil and the demons in which the damned suffer everlasting punishment. His worldly model is expressed by meanings that reflect a happy and joyful emotional state of a person or a difficult lifestyle, i.e. suffering, poverty: heaven – a place or state of supreme happiness, an often imaginary place or state of utter perfection and happiness; hell – a place or state of misery, torment, or wickedness: war is hell; an extremely unpleasant and often inescapable situation: rush-hour hell[6.17].

In our opinion, heaven is a symbol of eternal pleasure and the achievement of dreams, and hell is a

symbol of darkness and eternal torture. Phrases with these two words are polar opposites. In our oral speech, we often hear phrases such as I live in *hell* or, on the contrary, this *earth is heaven*.

In some fiction literature in the Uzbek language, we have come across expressions with the necronym of the grave (мозор). For example: Агар яна бир марта ҳақорат қилсанг, эшагинг билан қушмозор буласан[5,172]. In our example above қушмозор булмоқ is a phrase meaning to curse. In this phrase, when transmigration occurs, it means that you will die or leave the world. Қушмозор булмоқ means two graves and represents the death of two people in real life or the intention to die.

The above can be said to embody the frame of good and evil, promoted instead of living happily and having dark intentions. We also worked on the concept and tried to clarify the pragmatic features of phraseologisms with the theonymic component.

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LINGUISTIC STUDY OF PROVERBS IN UZBEK LANGUAGE

Abstract: The scientific researches of scholars who recognized proverbs as a paremiological unit in Uzbek linguistics are theoretically analyzed. At the same time, the proverbs are analyzed linguistically and the relation of the proverb to the related event is revealed in this article.

Key words: parame, contradiction in meaning, primary meaning, derived meaning, lexeme.

Language: English

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Introduction

Wise words and proverbs are decrees that no king has announced, laws that no president has sealed, and constitutions that no state has signed. Proverbs can be called an "encyclopedia of life", a folk encyclopedia, a unique art-historical chronicle. They sharpen people's minds, make their speech clear and impressive, teach them how to choose the right path in life, solve life's puzzles and problems correctly, and give valuable advice on all major and minor issues of life.

Also, proverbs are very ancient as the smallest examples of oral creativity that summarize the worldview, cultural, domestic life, and thought treasure of the people who created them.

Already in the 11th century, M.Koshgari included a large part of the wise sayings of the Turkic peoples in his "Devon" and explained in Arabic the meaning and context of their use. "Devonu lug'otit turk" contains more than 300 pieces of poetry, 291 proverbs and sayings related to folklore [2].

Uzbek scientists T. Mirzaev, B. Sarimsakovlar in the collection "Uzbek folk proverbs" note that "each person has up to 800 proverbs in his speech, but when asked, we may not be able to recite 800 proverbs by heart." But during our activities, we often use them in our speech in various relationships.

The Uzbek paremiological fund includes several tens of thousands of paremiols. They are studied in the paremiological field of linguistics.

The linguist scientist N. Ulukov explains this in the textbook "Theory of Linguistics" as follows: "paremiology is one of the departments of linguistics, which studies the stable combinations of proverbs, proverbs and aphorisms (wise words) in the language" [15]

In "Qomus info online encyclopedia" it is shown that paremiology originates from the following words (Greek: paroimia - wise word, sarbulmasal and logos - teaching).

- 1) a branch of science that studies wise expressions such as proverbs, proverbs, aphorisms, which are transmitted orally from generation to generation, concise and simple, short and meaningful, and appear as logical generalizations;
- 2) wise expressions such as proverbs, sayings, aphorisms that exist in a certain language are a system of paremas.

Analysis of Subject Matters

Paremas are the object of study of literary studies, as they are passed down from ancestors to generations only orally, and are a product of folk art. This is because most of the poems are often similar to the poetic form and they use several figurative devices such as simile, antithesis, anaphora, alliteration, irony,



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pitch. At the same time, because paremas are composed of words and consist of sentences expressing a certain idea, they are also a study object of linguistics. Paremiology combines these two aspects.

The branch of paremiology, which studies the origin, historical development and meaning of paremas, is closely related to phraseology. Paremiology studies the variety of expressions that exist in a language, while phraseology, as a part of it, studies only fixed compounds with a figurative meaning. In this respect, they differ from each other, the unity of the object of study, that is, the examination of stable, stable compounds consisting of several words, is a similar, common aspect between them.

It should be noted that studying and researching folktales helps to understand the people's lifestyle, ideology, and mentality. The content expressed in them increases the student's enlightenment.

Z. Masharipova wrote in the textbook "Uzbek Folk Oral Art" that "Uzbek folk proverbs are being studied by folklorists and literary scholars as examples of perfect artistic creativity." After all, the Greek thinker Aristotle, who lived in the 4th century BC, praised the wisdom of the people and said, "The strength of all people is from food, and the strength of the mind is from wisdom."

One of the sages who lived ten centuries ago, Unsur al-Maoliy Kaikovus, says in his work "Kabusnama": "O child, I hope that you will accept these teachings. With this, I will have fulfilled the duty of fatherhood. It is known that the customs of the people are that they run and search and create something from the world and leave what they find to their loved ones[7].

According to the "Annotated Dictionary of the Uzbek Language", the terms "parema" and "paremia" are synonymous lexemes used in the meanings of proverbs, proverbs, and aphorisms[13].

Accordingly, the term parema was widely used in our research. In our study, the term paremia was used in a proverbial sense.

It should be noted that by the 20th century, linguistic research on paremiological units accelerated, that is, scientists began to create collections of paremiological units, collect new materials and compare them with the previous ones, study the structure of paremiological units, their history, evolution, and aspects related to the mentality of the people.

These include the two-volume "Uzbek folk proverbs" (1987, 1988) created by Uzbek scientists T. Mirzaev, B. Sarimsakovlar, and the collections and dictionaries of English scientists Wolfgang Mieder (1992), John Simpson and Jennifer Speake (1998).

In Uzbek linguistics, certain works have been carried out on researching folk proverbs, proverbs, and aphorisms from the point of view of linguistics and compiling their dictionaries. In Uzbek linguistics, certain works have been carried out on researching folk proverbs, proverbs, and aphorisms from the point of view of linguistics and compiling their dictionaries.

However, the linguistic research of Parmes by linguists is not enough. In this regard, a number of issues that should be paid attention to are waiting for their solution. In particular, it is time to compile the contextual, situational structure, semantics, stylistic, linguistic and cultural features of folk proverbs, especially bilingual dictionaries of synonyms.

The work of H. Zarifov, M. Afzalov, R. Jumaniyozov, M. Fozilov, T. Mirzaev, B. Sarimsakov, M. Sodikova should be highlighted in the study of folk proverbs and their publication. In these works, folk proverbs were given a general characteristic, and their thematic scope was determined.

We can also acknowledge the works of our well-known linguists Sh.Rakhmatullaev, Ya.Pinkhasov, G'.Salomov, Q.Samadov, Sh.Shorahmedov, Kh.Abdurahmonov, M.Sadriddinova.

The same aspects can be seen in the works of Kh. Abdurahmonov, P. Bakirov, B. Juraeva, P. Nazarova, M. Temirova, G. Ergasheva, M. Sadriddinova, D. Turdalieva, O. Uralova, Z. R. Narmuratov.

Research Methodology

Kh. Abdurakhmanov's doctoral dissertation is aimed at elucidating the syntactic construction of proverbs and sayings in the Uzbek language, the main forms of sentences and word combinations in proverbs, their morphological, syntactic and some semantic and stylistic features[1].

In P.Bakirov's doctoral dissertation entitled "Номинацентрические пословицы в разносистемных языках (на материале русского, ўзбекского и казахского языков)" the main principles and methods of comparative paremiology were developed, he established the status of a proverb as a special type of paremiological unit, determined the place of a proverb among other paremies, compared proverbs theoretical requirements for learning, as well as a comprehensive analysis of paremiological units of languages in different systems are proposed, the semantics of nominally centered proverbs in Russian, Uzbek and Kazakh languages are described[3]

B. Joraeva's dissertation entitled "Linguistic position and moral-stylistic use of proverbs" has thoroughly researched the semantic features of Uzbek folk proverbs, the only sign that unites proverbs and phrases - their idiomatic nature in terms of meaning, has been analyzed on the basis of evidence, etymologically between proverbs and phrases the difference is revealed. In terms of meaning, the difference between a proverb and a phrase is determined, syntactically, the different signs of a



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proverb and a phrase are shown, the different characteristics of a proverb and a proverb, the mutual synonymy, antonymic, graduonymic relations of proverbs like other linguistic units, the presence of monosemy and polysemy phenomena in them, the phenomenon of polysemy in proverbs its existence was determined and analyzed for the first time [5].

In P.Nazarov's dissertation entitled "Using proverbs in teaching German language based on communicative methodology at the lower stage of undergraduate training", a new interpretation of the concept of communicative methodology and the factors forming this methodology were researched [7].

- In M. Temirova's dissertation entitled "Typology of Uzbek and Kyrgyz folk proverbs", the history of creation and factors of emergence of Uzbek and Kyrgyz folk proverbs, the role of socio-historical and geographical environment in the formation of people's philosophical and artistic-aesthetic views, as well as the structural, issues of poetic typology are highlighted, the genetic commonality of Uzbek and Kyrgyz proverbs, the existence of similarities between the artistic images in proverbs, and the structural and artistic features of both folk proverbs are highlighted through the study of the smallest genre in folklore[10].
- G. Ergasheva's dissertation work entitled "Comparative-typological study of the gender aspect in English and Uzbek phraseology and paremias" comparative-typological analysis of gender-indicative phraseological units and paremias in English and Uzbek languages[16].

In the work of M. Sadriddinova, the lexical features of Uzbek proverbs and sayings are also perfectly studied[11].

- D. In Turdalieva's dissertation entitled "Linguopoetics of Uzbek folk proverbs", the linguopoetic possibilities of Uzbek folk proverbs are revealed by evaluating the characteristics of Uzbek folk proverbs in the paremiological system from the point of view of the quality of artistic speech [9].
- O. Uralova's dissertation entitled "Semantics and structure of proverbs with the head lexeme "family" in English and Uzbek languages" refers to the linguistic and cultural status of paremia, proverb, matal, phraseological units, and as a result of comparing proverbs, matal and phraseological units in English and Uzbek languages, their structure, lexicalgrammatical similarities and differences are revealed. structural-semantic classification of proverbs with the head lexeme "family" in the cross-sectional plan, proverbs with the head lexeme "family" in English and Uzbek languages are divided into groups based on comparative-contrast, qualitative and thematic analysis[15].

Z.R.Narmuratov's dissertation entitled "Linguocultural study of the paremiological units related to the concepts of "education" and "science" in English and Uzbek" by studying paremiological units with the concepts of education and science in English and Uzbek languages, their linguistic and cultural similarities and common aspects were researched[8].

The semantic phenomenon was first observed as a lexical phenomenon and a lot of work was done in this regard. But in linguistics there are synonymous phenomena that have not yet found their exact explanation. One of these is the synonymy of proverbs. The synonymy of proverbs has not been studied as a separate research object not only in Uzbek linguistics, but even in Turkic studies. In Russian linguistics, it has been studied as an object of research, but a dictionary of synonymous proverbs has not been created. In our opinion, the reason for this is that, not only in Turkic studies, but also in Russian linguistics in general, there is no definite opinion about the linguistic role of proverbs. As a result, proverbs are limited to quoting as an object of phraseology in the work related to the synonymy of lexical units, and as an example to justify the idea in the work related to the synonymy of a simple or compound sentence in syntactic methodology.

Currently, there is a need to carry out special works on the synonymy of proverbs, to carry out large-scale research in which their synonymous features are explained in detail. Because A.S. Pushkin, looking at the proverbs created by the Russian people, admired their meaning and artistic beauty and said: "How meaningful, how beautiful, how meaningful each of our proverbs is!" You say gold, gold!" at the time of evaluating, not to mention that their synonymy increases the value of this "gold" a hundred times, a thousand times.

Synonymous proverbs serve to express the content of similar actions and events that exist in existence. Such proverbs express the same content in different forms and images. Synonymous proverbs are similar to each other in terms of expressing the general content, but they differ from each other with specific subtleties of meaning and some additional nuances. In order for proverbs to be mutually meaningful, they must meet the following conditions:

- 1) possession of a single meaning basis;
- 2) belonging to one thematic group;
- 3) each proverb is based on a separate image;
- 4) differences in some subtleties of content and degree of application.

One of the conditions that ensure the mutual meaning of synonymous proverbs is that each proverb in the synonym nest is built on a separate image basis. The source of formation of such proverbs, the reality underlying them is different. This situation is a feature of most of the synonymous proverbs. But there are such synonymous proverbs that are based on the same image. Nevertheless, such proverbs should be called synonyms.

Analysis and results

In fact, insisting that all synonymous proverbs be based on a different image as a single, common sign



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leads to consistency. But the collected examples do not allow such a way. There are proverbs in our language that are based on the same image. But this feature cannot be the basis for considering them as variants of the same proverb. Because even though the proverbs are built on the basis of the same image, actually grow from the same source, the lexical content and the arrangement of the parts of the sentence are completely different from each other.

One of the conditions for two or more proverbs to be mutually synonymous is that they are similar in meaning. Synonymous phenomena must have such a common meaning. But at the same time, each synonymous proverb may have a specific edge of meaning in addition to the general meaning. For example, consider the following synonym series of proverbs: Саёз дарё шовкин окар, Тухум тугмайдиган товук, кўп қоқоглайди, Ашула билмаганнинг авжи кўп, Арава қанча қуруқ бўлса шунча тарақлайди, Сутсиз сигир кўп маърайди, Ногоранинг ичи пўк, овози баланд, Сурнай

чалишни билмаганнинг оҳанги кўп, Бўш тегирмон гулдирар, Сутсиз сигир сузагон бўлар, Эпсиз созанда (The shallow river flows noisily, The hen that does not lay eggs clucks a lot, The song that does not know it has many peaks, The more dry the cart is, the more it combs, The more the milkless cow bleats, The drum is hollow, the voice is loud, The one who does not know how to play the trumpet has many tones, The empty mill blooms, The milkless cow becomes lazy. A poor musician)

As can be seen from the works cited above, the problems of parema and paremiology have been studied by linguists as much as possible. Paremiological units need to be distinguished semantically. The true nature of proverbs can be revealed and read in their relations (connections, contradictions, similarities, differences) with the events they are related to. Therefore, we should first dwell on the difference between proverbs and proverb-proverb types.

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THE PROGRESS OF THE LITERARY TRADITIONS OF AHMAD YUGNAKIY

Abstract: The wise poet Alisher Navoi's creativity enjoyed divine sources as well as the creativity of his predecessors. Among them, the writer "Hibat ul-haqayiq" by Adib Ahmed has a special place. The poet's thoughts about Adib Ahmed were discussed in the article. It was found that the information he brought from the tazkiras will help clarify the life and work of Ahmad Yugnakiy. Also, it was clarified that Navoi was influenced by Adib's works.

Key words: epos, ghazal, effect, style, analysis, interpretation, constitution, tazkira.

Language: English

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Introduction

In the creation of Navoi's charming ghazals and great eposes, and in the publication of his memorial treatises, without a doubt, the influence of his predecessors who lived and created before him. Indeed, it is not surprising that the ghazals of poets such as Yusuf Amiriy, Atoyi, Lutfiy, Gadoiy were the inspiration for many of Navoi's lyrical works. "Muhabbatnama" of Khorezmiy, "Makhzan ul-asrar" of Heydar Khorezmiy and Sayyid Ahmed's "Taashshuqnama", Lutfiy's "Gul va Navro'z" and Yusuf Amiriy's "Dahnoma" were served as a lesson and a school in the creation of lyrical-epic epics of Alisher Navoi.

In particular, our research confirms that the information presented in Alisher Navoi's tazkiras is of great importance in clarifying and enriching the information on the biography and works of Ahmad Yugnakiy. Also, when studying the influence of Adib Ahmad's works on Alisher Navoi's work, can be obtained it became known that a number of scientific generalizations.

It is known that the interest to work of Ahmad Yugnakiy began in the twenties of the last century. Prof. Abdurauf Fitrat included excerpts from "Hibat ul-haqaiq" in the anthology "Examples of Uzbek literature" published in 1927. After that, the most popular magazine of that time "Education and

teacher" (1928, №10) published Fitrat's article entitled "Aybatul haqayiq". Fitrat based to the publication of Najib Osimbek. As the Uzbek poet does not have enough information about Ahmad Yugnakiy and his works, Abdurauf Fitrat pays more attention to the biography of the poet. In doing so, poet uses the historical facts and information contained in "Hibat ul-haqaiq" about the life, place of birth and work of Ahmad Yugnakiy about the reasons for the writing.

Also, Fitrat referred to work of Alisher Navoi "Nasayim ul-Muhabbat" as another reliable source. However, one argument presented in "Nasayim ul-Muhabbat" does not satisfy Fitrat. These were the thoughts of Adib Ahmad, who learned from Imam Azam (Abu Hanifa al-Nu'man ibn Thabit (699-767) rahmatullahi alayh), standing "four steps away from the city of Baghdad". He considers this a "legendary news". As a result, the scientist begins to search for scientific and literary sources free of "legendary news". According to him, "The second source reporting from Adib Ahmad is "Tazkirat ul-Awliya" written by Abulhasan Muhammad Bagir bin Muhammad Ali in 951 AH. But this person could not do anything other than to translate the legendary message of Navoi "Nasim ul-Mohabbat" into Persian. According to Fitrat, it is impossible to accept that "Aybatul Haqayiq" was written in the second century of the Hijriy (i.e., three centuries before "Qutadgu



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Bilig" and "Devoni Lug'at"). Its language and style confirm that it was written one or two centuries after "Kutadgu bilig".

Fitrat also noted that the six verses of Adib Ahmad in "Nasayim ul-Muhabbat" were "undergoed many changes" in Najib Osimbek's edition, and the manuscript he used was not perfect. There is another important aspect in "Aybatul Haqayiq": Fitrat makes a serious effort to find out who and where the ruler Dod Sipohsolorbek lived.

Doctor of Philology Ergash Rustamov writes about the strong interest in ancient Turkish literary monuments in Samarkand, like Herat, during Ulugbek's rule: "In 1444, at the request of Arslan Hoja Tarkhan, in Samarkand, an old Uzbek poem dedicated to Adib Ahmad and an old Uzbek poem dedicated to his poet is given. The author of one of them is Amir Sayfiddin Barlos, who served Temur and wrote poems in Turkish and Persian under the pseudonym Sayfi, and the other is Arslan Khoja Tarkhandur. This testifies to the great love of the authors of these poems for the monuments of ancient Turkish literature."

There are such words in Arslan Khoja Tarkhan's poem describing about Adib Ahmad:

Koʻp elni koʻrarman Adib soʻzini, Bila bilmasindin ular oʻzini. Ayibqa qoʻyuptur xaloyiq aro, Gʻalat ma'nisin avitmish yana (98-bet).

Therefore, the translation of "Hibat ul-haqayiq" in Uyghur script by the initiative of Arslan Khoja Tarkhan served to avoid misinterpretation of Adib Ahmad's work and to put an end to distortions of meaning. Besidies, the copy of the work in Uyghur script had its own meaning. The use of the Uyghur script during the time of the Mughal rulers, especially Amir Temur and his successors, had the meaning of a national-cultural movement. administrators and munshis, who were used to writing state documents and decrees in Persian, had to learn Uyghur script even in Khurasan. It has been recorded in the history books that it became a custom to write appeals to the general public and decrees explaining tax issues on stones with Uyghur writing and restoring them on the roadsides. So, copying of ancient examples of Turkish poetry such as "Qutadgu bilig" and "Hibat ul-haqayiq" in Uyghur writing was done in view of the development of the national language and literature, which should also be taken into account. This closely helped to increase the attention to the personality and works of Adib Ahmed of our people. It is not difficult to feel the influence of that interest when Alisher Navoi mentions a quartet of Yugnakiy in one of his letters in "Munshaot" and devotes a lot of space to it in "Nasoim ul-Muhabbat".

Navoi said, that Adib Ahmed is born blind, but he is very intelligent, intelligent, ascetic and religious, and explains that he is a student of Imam Azam: "Baghdaddin's residence is a few distances away, some of them saids, and the road is four kilometrs far". Navoi brings in his work "Munshaot" the following ruboy of Adib Ahmad:

Atodin xato kelsa koʻrma xato, Savob bil ato toki qilsa xato. Atoning xatosini bilgil savob, Seni yuz balodin qutqargay Xudo,—

But this rubai of Adib Ahmad Yugnakiy is not found in the currently available copy of "Hibat ulkhaqayiq". Taking this into account, Maqsud Sheikhzade says: "So, during Navoi's time, a second work of Adib Ahmad also gained fame among the people". Of course, since this opinion requires evidence and proof, it is difficult to fully support it. Perhaps, Navoi read second one work of Adib Ahmed. Then why did not record his name? To this question, we can answer that Navoi did not even mention the name of "Hibat ul-haqayiq". However, these and similar questions do not give a reason to conclude that Navoi did not read the works of Adib Ahmad in general.

Whereas, the famous Turkish scientist R.R.Arat emphasized that he had very little information about the literary environment of Herat of that time, including Alisher Navoi have few information about Adib Ahmad, and from the words of Alisher Navoi in "Al-ilmu inda Allahu ta'ola" in "Nasoyim" Alisher Navoi's poet works, it can be understood that he was not familiar with them closely," he says.

Academician B. Valikhojhaev, with the intention of proving that Navoi got acquainted with "Hibat ulhaqayq" in Samarkand, makes the following observations: "If the information about the copy of "Hibat ulhaqayq" copied in Uyghur script by a scribe named Zainulobiddin bin Sultan Bakht ulhurjaniy in Samarkand in 1444 if it is also added, it is possible that Navoi got acquainted with the work of Adib Ahmad during his years in Samarkand.

Later, in 884 Hijri, 1480 AD, a copy in Arabic script was copied in Constantinople by Sheikhzada Abdurazzaq Bakhshi. Therefore, during the time of Navoi, Adib Ahmad's work was known not only in Movarounnahr and Khorasan, but also in the state of Rum at that time.

Six copies of "Hibat ul-haqayiq" are known in the world of science. When I got acquainted with the new edition of "Hibat ul-haqayiq", - says professor Abduqadir Hayitmetov, "it became clear that all the copies of Adib Ahmad's epic that have reached us are still did not finish". A. Hayitmetov said that attention to the fact that the rubai from Navoi's "Munshaat" and some verses from "Nasoyim ul-Muhabbat" are not found in copies of the work, and says, "So, Navoi used a perfect copy of "Hibat ul-Haqayiq".

This is the correct conclusion in our opinion. Because, Navoi could not have quoted of Adib Ahmad fragments of his poems in his works without thoroughly familiarizing himself with his historical and artistic life and creative work. There are many proofs to say that. Let's take a look at some of them.



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In a collection dedicated to Amir Oytemir, the commander-in-chief of Amir Sheikh Abu Ishaq, who ruled in the first half of the 14th century, some parts of "Hibat ul-haqayiq" were included along with various poetic pieces. This fact indicates that not only the Turkic peoples, but also the officials involved in the administration of the Persian-speaking peoples have read "Hibat ul-haqayiq" and selected passages from it are not taken from random copies. Besides, if the perfect copies of "Hibat ul-haqayiq" were not widely distributed, it would be difficult for him to influence the development of literature after him.

In article of professor M. Imamnazarov "When did Adib Ahmad live?" entitled "Adib Ahmad was born around 750 and lived in a town or village a few miles away from Baghdad, the capital of the Abbasid Caliphate." He is based on Nawoi's statement that Adib Ahmad was a disciple of Abu Hanifa al-Noman ibn Thabit, the founder of the Hanafia school, who died in 767 AD.

The scientist said, "So, Alisher Navoi's writings were not noticed by scientists before?" Why did they not draw such conclusions?' — as like as raised the questions and makes some conclusions. According to him, Turkish scientists Najib Osimbek and R.R.Arat, who were the first to work closely with Adib Ahmad's work, "started to get acquainted with the present generation." Those who are unaware of the information provided by Navoi."

This opinion is not very convincing, because R.R. Arat specifically commented on Navoi's M.Imomnazarov, a yugnakiygist information. Q.Mahmudov's he evaluates lack of attention to this issue: "...if it is clearly proven that Adib Ahmed became an Islamic thinker as a disciple of Imam Azam at that time, The reaction to the creative heritage of Adib Ahmed was also black as like the reaction to Ahmed Yassaviy". So, according M.Imomnazarov's general judgment, Adib Ahmed is a creator who created "perfect Islamic poetry" while living in the 8th century. After that, articles by two linguists, doctors of philology, K. Mahmudov, entitled "Sources should be looked at again" and E. Umarov, "Language is also ancient", were published. These scientists although they did not openly support the opinions and conclusions of M.Imamnazarov's article, they did not express strong opinions against them either. Even from E. Umarov's words that "We believe that the elements of the VIII-IX centuries language used in the work are enough to draw a conclusion about the period when Adib Akhmad lived," it is not difficult to notice that he was somewhat sympathetic to the views of M. Imamnazarov.

About two years later, doctor of philological sciences Ibrahim Khaqqul's published an article named "Was Ahmad Yugnakiy a contemporary of Imam Azam?".

In this article, the opinions of Uzbek, Russian, Turkish researchers who expressed confidence that

"Hibat ul-haqayiq" was written in the 12th-18th centuries are approved, and some scientific evidence is given in this sense. The information in "Naseem ul-Muhabbat" is interpreted as supernatural rather than historical. According to the description of the scientist, "Supernatural life is a mythical life that often does not recognize the boundaries of time, space and time at all. It was also called an epic life. To seek or demand a reality full of supernatural life is unthinkable. Because it is not a clear and real history, but a history that is a product of charm and arrogance. It is difficult to determine the biography and true character of a person based to memory." True, biographical memories contain real information about the birth, maturation, murids, and various activities of one or another governor, sheikh, or religious figure. "However, the connection with the historical background of the "collective memories" of the shaykhs, saints, and founders of the tariqat, which show the remarkable and extraordinary qualities or deeds, was deceptively weak."

According to scientific literature, the first a work on memories in Turkish literature was a work called "Tazkirai Sotuk Bugrokhan". So, during the Karakhaniy era, writing in the method of memory became a tradition in Turkish literature. Memories were also wrote about Adib Ahmed. There is no doubt that Navoi was aware of them and used them in "Nasoyim". From this point of view, the Turkish scientist A.Karakhan, quoted in the article of I.Haqqul, "Although Alisher Navoi gave some stories of an epic nature in his work "Nasayim ul-muhabbat", the historical chronology and the progress of literary information are in accordance with the belief in the information given there - his words are also worthy of attention.

Alisher Navoi's memory is based on two things that the information does not have historical and factual value. The first is that the title of "Amir Dod Sipohsolor" did not exist in the time of Imam Azam. The second is that the weight of "Hibat ul-haqayiq" (fa'ulun, fa'ulun, fa'ulun, faul) did not appear in Iranian literature at that time.

Islam is a permanent cure for almost all moral ailments, heart and soul ailments. In this respect, the influence of the holy words of the Qur'an cannot be compared to anything. That is why Alisher Navoi says in one of his ruba'is in "Nazmul Jawahir":

Olam eli ichra gar gado, gar shah erur, Ne dardki, ul koʻngli aro hamrah erur, Qur'onni tilovat etsun ar ogah erur, El koʻngliga chun davo kalomulloh erur, —

The Qur'an, above all else, means Truth and Truth, that is, the existence and unity of Allah. Therefore, the Holy Qur'an is a book of knowledge, faith and perfection. According to scientists, his real miracle is in his language. The language of the Holy Qur'an contains extremely melodious half-rhymes, internal rhymes and sajs. The musicality of the long



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and short syllables of the Arabic language has been enhanced. Every artist in the Muslim world was inspired by the words and meanings of the verses of the Qur'an and used them in necessary places. Yusuf Khos Hajib, Ahmad Yugnakiy and Ahmad Yassaviy were Turkic artists who were at the beginning of this creative work.

If we take a closer look at the text of the work, it becomes clear that most of the rubai in it are close to proverbs in language, meaning, style and expression. That's why Adib Ahmed's lines in "Hibat ul-haqayiq" and the verse "Atodin kelsa khato, bilma bilma khato" quoted in Navoi's "Munshaat" are like proverbs that express the complete content. Another example:

Jafo qildachingga yonut qil vafo, Arimas necha yuvsa qon birla qon.

Content: Answer faithfully to the one who suffering you, no matter how much he washes blood with blood, he will not be washed away the root of the meaning of the idea goes back to the folk proverb, not the hadiths. After all, the saying "blood cannot be washed away with blood" is widely used even now. It is also worth noting that "Kutadgu Bilig" and "Hibat ul-Haqayik" which came to the world after it are the products of the social and cultural life of the Karakhaniys, so the authors referred to verses, hadiths and proverbs with the same content. It is written a lot in the Qur'an verses and hadiths that a Muslim should not look down on his brother what he does not look up to himself, and that a true Muslim should live with the desire to do good to others.

Ahmed Yugnakiy's concepts related to Sufism are not only theoretical in nature, but also have practical value. Consequently, such unique reflections of the poet on mystical ethics reveal to us the image of

a great person with beautiful qualities and virtues. There is clear evidence of this. When Alisher Navoi says that Adib Ahmed's "eye of the heart is very bright", he means that he has the qualities to be a governor. The role of saints played an important role in the formation of Islam and writing a wide network. According to Yashar Ojak, belief in the saint, be it artificial or not, has gained great importance in the formation and centralization of the Muslimness of the Turkish peoples.

Therefore, it is commendable that Ahmad Yugnakiy, who gained wide fame among the Turkish peoples and became the "mukhtada of the whole nation", faithfully wrote his pen as a governor. Perhaps because of this, during the period of Amir Temur's statehood, two influential artists, Sayfiddin Barlos and Arslan Khoja Tarkhan, had a very high regard for the creative potential of Ahmad Yugnakiy.

In addition to increasing the meaning of the poem, the proverb or matal used in its place also allowed us to reflect on the poet's closeness and skill with folk art. The famous scientist Hadi Zarif noted that Navoi noted that "Mirzahaji Sugdiy, one of the Turkish poets of Samarkand, was not able to show himself in poetry, but because he incorporated a single proverb into a poem."

The poetic work "Hibat ul-haqayiq" by the thinker and writer Ahmad Yugnakiy, who lived and created in the 12th-13th centuries, is the most unique literary monument created in our literature after Yusuf Khos Hajib's "Kutadgu Bilig".

In Alisher Navoi's work "Nasayim ulmuhabbat", a special place is given to Adib Ahmed and examples of his works are evidence of his great reputation both in poetry and mysticism.

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ENGLISH CONTEMPORARY CORPORA LIST

Abstract: The development of corpus linguistics as well as the construction of modern corpora is one of the current issues of linguistics. In XXI century, the use of corpora plays a leading role in most linguistic research. At present, a number of new corpora exist, with the volume reaching several billion words. The large volume of corpora made it possible to carry out scientific studies on a larger scale and to compile dictionaries that are more voluminous.

Key words: corpus, Corpus of Contemporary American English, The Oxford English Corpus, The Cambridge International Corpus, The American National Corpus, The Open American National Corpus, Google Books Ngram Viewer, The News on the Web, The Global Web-based corpus of English.

Language: English

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Introduction

Corpus of Contemporary American English (COCA) is the largest (560 million words) corpus of American English that includes a wide variety of texts of various genres. The corpus was created by Mark Davis, Professor of Corpus linguistics at Brigham Young University from 2000 to 2003¹. COCA is a mixed-type corpus, since it contains both written texts (fiction, popular magazines, newspapers, scientific literature and etc.) and spoken language. The corpus contains 560 million words and includes texts from 1990 to the present.

Written corpus is represented by such genres as fiction: short stories and plays from literary magazines, children's literature, first chapters of books published since 1990, as well as film scripts (113 million uses); texts from popular magazines such as Time, Cosmopolitan, Men's Health, Good Housekeeping, Fortune, Christian Century, Sports Illustrated (118 million uses); newspaper article texts are from 10 newspapers across America: USA Today, New York Times, Atlanta Journal Constitution, San Francisco Chronicle (114 million uses); scientific articles from

100 peer reviewed journals in different fields of science².

In the corpus, the volume of spoken texts is 118 million word uses. This sub-corpus contains transcripts, video and audio recordings from a wide range of radio and television programmes: All Things Considered (NPR), Newshour (PBS), Good Morning America (ABC), Today Show (NBC), 60 Minutes (CBS), Hannity and Colmes (Fox).

The corpus is accompanied by WordAndPhrase. The search interface provides a wide range of features: search for words, phrases, lemmas, grammatical forms, synonymous series and etc. The corpus is updated twice a year and is convenient for tracking the dynamics of linguistic changes. This is the most widely used structured text corpus, with approximately 10,000 users every month.

The Oxford English Corpus

The Oxford English Corpus is the largest corpus ever created. It contains over 2 billion words and reflects the state of the modern English in the entire area of its distribution. In addition to British and American English there are varieties of English from Ireland, Australia, New Zealand, the Caribbean,

² The Corpus of Contemporary American English.URL: https://corpus.byu.edu/coca/



¹ Kauhanen, Henri The Corpus of Contemporary American English: Background and history.

http://www.helsinki.fi/varieng/CoRD/corpora/COCA/index.html

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Canada, India, Singapore and South Africa. It contains texts which are created since 2000, the bulk of the materials are placed on the World Wide Web. The written texts are taken from literary novels, academic journals, daily newspapers and magazines, moreover, email letters, texts from social media and web blogs. The corpus is available only to Oxford University Press researchers and utilized for compiling dictionaries³.

The Cambridge International Corpus

The Cambridge International Corpus was created as a base for compiling educational materials and dictionaries of the English language. The corpus includes British and American texts of various types, native speakers' spoken speech recordings with a total volume of over 700 million word uses.

The Cambridge English Corpus includes examples of modern written English from a variety of sources, including newspapers, journals, novels, letters, emails, textbooks, blogs, and more. Moreover, the corpus includes a wide range of spoken English from a number of sources, including daily conversations, phone calls, radio broadcasts, interviews, speeches, meetings, TV shows, and lectures.

A number of advanced corpora are included into the Cambridge English Corpus:

The Cambridge Business English Corpus

The Cambridge Business English Corpus is a huge compilation of British and American business language that includes reports and articles, business books, and business sections from several national newspapers.

The Cambridge Legal English Corpus

The Cambridge Legal English Corpus is a collection of books, papers and newspaper articles regarding law and legal procedures.

The Cambridge Financial English Corpus

The Cambridge Financial English Corpus includes texts from leading financial magazines and journals, as well as texts related to economics and finance.

The Cambridge Academic English Corpus

The Cambridge Academic English Corpus includes written and spoken academic language from a variety of US and UK institutions, including lectures, conferences, student presentations, articles, essays, and textbooks at the undergraduate and postgraduate levels.

The Cambridge and Nottingham Corpus of Discourse in English

The Cambridge and Nottingham Corpus of Discourse in English (CANCODE) is a compilation of spoken English captured in a variety of situations in hundreds of locations throughout the British Isles (e.g. casual conversation, socialising, finding out information and discussions). Cambridge University

Press and the University of Nottingham collaborated on the development of the CANCODE corpus.

The Cambridge Corpus of Spoken North American English

The Cambridge Corpus of Spoken North American English (CAMSNAE) is a massive corpus of spoken English from North America. It contains recordings of people going about their daily lives, at work, at home with their friends, shopping, eating and so on.

The Cambridge University Press/Cornell Corpus

The Cambridge University Press/Cornell Corpus is a vast selection of North American English including family/friend conversations which are casual, highly interactive and multiparty. The Cambridge-Cornell corpus is the product of a collaboration between Cornell University and Cambridge University Press.

The American National Corpus

The American National Corpus (ANC) is a corpus of American English consisting 22 million words from written and spoken sources published since 1990. The corpus is modeled on the British National corpus (BNC) and intended to reflect the American version of modern English. The corpus creates the most complete picture of American English for further research in linguistics, education, lexicography and technology.

The project is implemented by an organization called the Linguistic Data Consortium. This consortium, founded in 1992 with a grant from the Advanced Research Projects Agency (ARPA), includes universities, companies and government research laboratories. The organization is led by the University of Pennsylvania.

The ANC Consortium development team, comprising 15 publishers and a group of programmers, was set up to collect and process the information and decided to prepare the corpus in such a way that it would be compatible with existing software.

The first release of 11 million words of ANC took place in 2003. This version was a test version and was intended to analyze and identify weaknesses in the corpus. The next release was made in 2005. The size of the corpus doubled and amounted to 22 million words. The size and composition of this corpus does not allow to consider it as a representative corpus of American English. So far the developers have not reached the optimal volume for national corpora of 100 million words.

The Open American National Corpus

The Open American National Corpus was developed on the basis of the ANC. This version is inferior in size to the previous 2005 version and the corpus contains 15 million words.



³ The Oxford English Corpus URL: https://www.sketchengine.eu/oxford-english-corpus/]

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The Open American National Corpus (OANC) and its subcorpus The Manually Annotated Sub-Corpus (MASC) are American English text corpora. The corpus contains all genres of texts as well as transcripts of spoken data from 1990 onward. The Manually Annotated Sub-Corpus (MASC) as a whole contains 500 thousand words.

The main drawback is that in order to work with the Open American National Corpus it is necessary to install the corpus and a concordance program on a computer. Of all the available corpus managers, WordsmithTool is suitable for the Open American National Corpus. The process of installing the Open American National Corpus is measured in hours, and the processing of a single request goes beyond one minute. In doing so, the user customizes the settings for the installation of the annotation, which is contained separately from the corpus. This allows the user to work with an unannotated enclosure or to add only the information that the user needs. This option is probably intended to speed up the search for information on the enclosure. However, annotated and "clean" enclosures installed on medium specification computers take equally long to process queries. The main achievement of the developers is annotation, made to the standards set by the BNC Consortium.

Currently, the corpus is constantly being updated and when completed, this figure will increase to 100 million words. Words are arranged by frequency of occurrence in speech-from the most frequent to the rarest.

The corpus is available for non-commercial use for a fee and part of it, 15 million words - available for free download from the website.

Google Books Ngram Viewer

Google Books Ngram Viewer, a corpus of digitised books published in 2009, which presents the

texts of over one billion e-books published between 1500 - 2008. In 2011, the Google Ngram Corpus exceeded 200 billion words. In 2014, the second version of the Google Books Corpus was released with 155 billion uses of the written American English discourse and 34 billion uses of the British English[4]. The Google Books corpus contains, in addition to English texts, a much smaller volume of texts in 6 languages: Chinese, Spanish, French, Russian, German, Italian and Hebrew.

The News on the Web (NOW)

The News on the Web (NOW) corpus (2016) currently exceeds 5.7 billion words. The authors write that the corpus contains English-language texts from "2012 to yesterday". Every day, the corpus is updated with texts for 4-5 million word uses. Every night from 10:00 am to 1:00 am, the texts are uploaded to the corpus:

HTTrack reads Internet addresses (URLs) from Google News and downloads 9-10 thousand texts into the corpus, after which the repeated and template texts are removed using JusText. The markup and lemmatisation of the texts are carried out using the CLAWS 7 software, the texts are added to the main content of the corpus. On the website it is possible to track the most popular word of the day or of the year.

The Global Web-based corpus of English

The Global Web-based corpus of English (GloWbE) (2013), like the second-generation ICE corpus, aims to represent as many regional variants of English as possible around the world. This corpus contains the texts of web pages and websites of 20 regional variants of English. The GloWbe corpus is 100 times larger than the ICE corpus: it has a volume of 1.9 billion word uses[5].

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DECISION OF PRESIDIUM OF INTERNATIONAL ACADEMY

According to the results of research work of the past 2022 and published scientific articles in the journal «Theoretical & Applied Science», Presidium of International Academy of Theoretical & Applied Sciences has decided to award the following scientists - rank Corresponding member and Academician of International Academy, as well as give diplomas and certificates of member of International Academy.



Presidium of International Academy congratulating applicants with award of a rank of

Corresponding member of International Academy TAS (USA)

Scopus ASCC: 2000. Economics, Econometrics and Finance.							
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		Shakhty, Russia					
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3	Rumyanskaya Natalya	Institute of Service and Entrepreneurship	Ph.D., Associate Professor				
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4	Golubeva Olesya Anatolyevna	Don State Technical University (Rostov-on-Don)	Candidate of Technical Sciences associate professor			
		Scopus ASCC: 3300. Social Sciences	; .			
6	Davlyatova Gulchekhra Nasirovna	Ferghana State University Ferghana city, Uzbekistan	Associate Professor, Candidate of Pedagogical Sciences, Department of Russian philology			
		Scopus ASCC: 2200. Engineering.				
7	Deryaev Annaguly Rejepovich	Scientific Research Institute of Natural Gas of the State Concern "Turkmengas", Ashgabat, Turkmenistan	Candidate of Technical Sciences, Senior Researcher			
		Scopus ASCC: 1200. Arts and Humanit	ties.			
8	Khatamov Ildar Urakovich	Karshi Engineering-Economic institute, Karshi, Uzbekistan	Russian Language teacher Department of Uzbek Language and Literature			
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9 Kozhevnikov Vadim Andreevich		Peter the Great St.Petersburg Polytechnic University	Senior Lecturer			

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