

Macroeconomic Problems of Society Development

*Dustoboyev Shd.,
Safarov Dj.*

**Investments involving as a basis for industrial and innovative development
of the national economy 3**

The article analyzes the impact of investment on national economy development through industrialization and the transition to an industrial and innovative development path.

Key words: investment; industrialization; innovation; individual entrepreneurship; national economy.

Treytyakova E.

Innovation development of the Republic of Belarus: challenges and prospects..... 8

The article presents the results of studying the international innovation rating of the Republic of Belarus, assesses ways to improve the efficiency of innovation processes and identifies factors that affect the quality of innovative management methods and the development of advanced technologies.

Key words: innovation; innovation development; innovation process; research and development; intellectual property; research activity.

Efficiency and Competitiveness

Humennikov A.

**Outlook of improving the quality of trade services in consumer cooperatives retail
facilities of the Republic of Belarus..... 14**

The article deals with probable trends for changing the factors influencing the quality of trade services in consumer cooperatives retail facilities in the forthcoming years (until 2025). There are offered some recommendations for improving the quality of trade services. The recommendations are of the highest probability for implementing in stationary and mobile retail facilities of consumer cooperatives.

Key words: quality of trade services; factors of trade service quality; trade network; consumer cooperatives; retail chain of consumer cooperatives.

Pugacheva O.

Efficient solutions for the organization of company's distribution network 22

The article deals with approaches to justifying the creation and management of company's distribution network in various forms (trading house, dealer or distributor) which are based on comparing costs of various sales channels, calculating losses from working with non-economic sales channels and choosing an intermediary which has the minimal cost of its supporting.

Key words: commodity distribution network; commodity distribution; distribution channel; trading house; dealer; distributor.

Management and Marketing

Shishko E.

Conceptual approaches to modeling the development of regional logistics systems 30

The article outlines the results of the analysis of conceptual approaches to modeling regional logistics systems and highlights the problems and priorities of their improvement.

Key words: modeling; development; logistics; system; region; concept; approach; management; analysis; model.

*Kuznetsov N.,
Shishkova E.*

Improvement of several elements in company's inventory management system 36

Organizing the process of optimal and effective inventory management is of great importance nowadays for business entities, as it is focused on providing the necessary inventory for keeping volume of sales. This article analyzes the features of inventory management system optimization; describes the factors explaining why inventory optimization is an important element in business entity's management. In addition, there are offered methods and several procedures to be implemented for the most effective optimization. There is estimated the efficiency of inventory management optimization on the basis of minimizing the costs of purchasing, replenishing and maintaining inventories.

Key words: inventory; material stock; optimal inventory management; system; inventory management.

Finance

Kikot I.

Standard approach in investment making decision 41

The article offers a standard approach to substantiating static and dynamic indicators of investment project efficiency. Substantiating dynamic indicators of efficiency is proposed to be performed on the basis of the standard values of risk level included in discount rates calculation and standard values of equity profitability, invested in the project.

Key words: standard of equity profitability; discount rate; standard current return; standard investments risk level; CAMP model; standard b-coefficient.

Kaltovich I.

Rational parameters for alkaline hydrolysis of raw materials containing collagen and their influence on nutrition value and safety indicators..... 47

The article identifies rational parameters for alkaline hydrolysis of raw materials containing collagen: $c(\text{NaOH}) = 6\%$, $t = 15$ h, liquid coefficient 1:2, which provide improved functional and technological as well as structural and mechanical indicators, safety indicators meeting requirements of standard documentation, allowing to increase values of amino-acid score of treonine (up to 87.5%), isoleucine (up to 70.0%), leucine (up to 74.3%), phenylalanine + tyrozine (up to 65.0%), cysteine methionine (up to 40.0%), the content of asparagine and glutamine acid (up to 2.8 and 6.7 g / 100 g respectively), essential amino acids (by 6.7%), polynunsaturated fatty acids (by 4.9%), including linoleic and linolenic acid by 1.6 and 1.2 times respectively (compared to the standard), to bring closer to the standard utility ratio of amino-acid structure (0.51), an indicator of comparable redundancy (0.0033), the calcium : magnesium ratio (2.3 : 1) and the calcium: phosphorus ratio (1 : 2.1) and also to reduce by 2.6% raw and main materials cost when producing cooked sausage which is added 10% of an emulsion from raw materials hydrolyzed in this way.

Key words: raw materials containing collagen; sodium hydroxide; the moisture connecting ability; extreme tension of shift; essential and non-essential amino acids; polynunsaturated fatty acids; mineral substances; safety indicators.

*Bloshchinskaya E.,
Gavrish A.*

Heat and mass exchange processes in baking gluten-free fondants..... 53

The aim of the study is to learn the influence of heat and exchange processes on the quality of gluten-free fondants. According to the fondant's technology the formation of the outer porous dense part of the dish and its inner liquid viscous-flowing part are anticipated, and an important factor is the choice of temperature parameters and baking modes. These are the heat and mass exchange processes that directly influence on the formation of structural and mechanical properties of products, such as porosity, viscosity, specific volume. The heat and mass exchange's characteristics of the gluten-free fondant's baking process were determined with the help of chromel-copel thermocouples coated with protective silicon organic lacquer. A six-point potentiometer KSP-4 was used to record temperature changes. The temperature measurement accuracy was ± 1 °C. To measure the temperature of different layers of model systems, the thermocouples were positioned at samples' different heights. The Cartesian coordinate system was used for constructing the heating curves. During the research process it was established that the completion of the heat exchange processes necessary for the production of gluten free fondants is achieved at the baking temperature 200–220 °C in the Combi Oven Rational AG d-86899, the cooking time is 7–8 minutes. Studies have also shown the possibility of the outer porous part density and inner liquid part viscosity correlation for fondants. The revealed characteristics of heat and mass exchange processes of gluten-free fondants making enable to adjust the parameters and modes of their baking according to consumers' needs.

Key words: fondants; gluten-free dishes; hot sweet dishes; heat and mass exchange; baking processes.

Education. Specialists Training

*Lebedeva S.,
Shchepinin V.*

Internationalization of higher education: global trends and areas of cooperation between universities of the Republic of Belarus and the Russian Federation 58

The article analyzes the priority directions of universities development in the Republic of Belarus and the Russian Federation based on the principles of higher education internationalization. The emphasis is made on the problems of educational services export and on the network form of organizing institutions of higher education as the most promising one nowadays.

Key words: internationalization; university; higher education; educational services export; the Republic of Belarus; the Russian Federation.

Shablouskaya T.

Current situation with ideological and educational work in the Belarusian Trade and Economics University of Consumer Cooperatives and directions of its improvement 66

The article reveals the main directions of ideological and educational work at the Belarusian Trade and Economics University of Consumer Cooperatives (BTEU): activities carried out and most significant achievements of the university in specific areas are briefly described. The article also identifies certain problem points in the field of ideological and educational work of the BTEU, and offers some areas for its improving.

Key words: ideological work; educational work; social work; physical education and sport; Public Association “Belarusian Republican Youth Union”; Belarusian Trade and Economics University of Consumer Cooperatives.

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