

RESUME

of the works of As. Professor DSc. eng.. Plamen Borisov Dyankov proposed for participation in a competition for "professor" in the field of higher education: 5. Technical sciences, professional field 5.13. General Engineering, /Engineering Logistics/ in the Department of Engineering logistics, Faculty of Technical sciences, University of Shumen "Bishop Konstantin Preslavski", published in the State Gazette, issue 63/17.07.2020

I. Monograph

Dyankov, P. "Process management by choosing an alternative to influence the elements of supply chains", Konstantin Preslavsky Publishing House, ISBN 978-619-201-383-7, 2020

Supply chain management is done through logistics solutions, which are a choice of alternatives. It is imperative to choose a rational option of two or more possible impacts. The decision is the result of the creative act of purposeful balanced correction of a logistical situation, solving a problem or variant of impact on the supply chain and streamlining the processes that take place in it. The idea is logistically oriented product life cycle management to meet the needs and desires of end customers in the most efficient way possible, using modern transport technologies.

II. Textbooks and teaching aids

2.1. Plamen Dyankov, "Materials Science and Technology of Metals", Konstantin Preslavsky Publishing House, ISBN 978-619-201-385-1, 2020, library@shu.bg

The material included in the textbook aims to assist students in studying basic topics concerning the theoretical and practical aspects of engineering training in the professional field of "General Engineering" in the discipline.

2.2. K. Davidov, T. Panayotova, P. Dyankov "The system approach in the design of logistics systems", Konstantin Preslavsky Publishing House ",ISBN 978-619-201-160-4, 2017

The textbook contains topics that provide basic knowledge of systems theory and systems analysis in the design of complex systems.

2.3. A. Bogdanov, P. Dyankov, "Industrial Management", Konstantin Preslavsky Publishing House, ISBN 978-619-201-161-1, 2017

The textbook contains topics that provide basic knowledge about the organization of production, the elements of production infrastructure, the types of production facilities.

2.4. Plamen Dyankov, Krasimir Davidov, Machine Elements Tutorial, Konstantin Preslavsky Publishing House, ISBN 978-619-201-382-0, 2020

The discipline "Machine Elements" is a subject of study of machine elements with general purpose, which fully satisfies the specialty "Engineering Logistics". The included constructive material assists the student in developing course projects.

2.5. Plamen Dyankov, "Production technologies-theoretical foundations of processing by plastic deformation" tutorial, Konstantin Preslavsky Publishing House, ISBN 978-619-201-377-6, 2020

The tutorial is created to help students acquire basic knowledge of the types of deformations and mechanisms, the factors influencing the plasticity of metal alloys, methods for processing metals by plastic deformation, maintenance of roller mills and presses.

2.6. Krasimir Davidov, Plamen Dyankov, "Non-destructive testing methods", Konstantin Preslavsky Publishing House, ISBN 978-619-201-280-9, 2019

The types of defects in solid materials are considered, a characteristic of the visual and measuring control is given, as well as non-destructive physical control methods. Brief information on the licensing of specialists in the field of non-destructive testing is presented.

3. Articles and reports from scientific conferences, proceedings and periodicals

Publications can be classified into the following main areas:

- ✓ Organization and management of supply chains;
- ✓ Standardized approaches for building and developing information flows in logistics;
- ✓ Possible directions for development of transport management processes.

3.1. Organization and management of supply chains

Publications with contributions in the specified field

8.3. Plamen Dyankov, Integrated and quantitative limits for monitoring in logistics, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721 c. 342-358

With the increasing role of logistics and supply chain management (SCM), there is a need for balanced, integrated and quantified limits for monitoring and evaluating performance.

8.4. Svetlozar Stoyanov, Plamen Dyankov, Marketing brief historical overview of the definition, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, c. 389-393

The proposed themes attempted a brief overview of the historical development of the definition of marketing.

8.7. Plamen Dyankov, Management of complex dynamic systems, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, c. 359-364

Automated systems are an innovative way for efficient logistics management of manufacturing processes in the manufacturing company, helping to optimize production costs and norms, monitor real-time processes, increase the overall efficiency of the production-logistics system, and minimize subjective deviations of standardization norms derived from the human factor.

8.15. Plamen Dyankov, Trends in the development of the metalworking industry, International scientific refereed online journal with impact factor, Issue 69, May 2020, ISSN 2367-5721, c.37-40

The development of new generations of digital technology has been identified as a leading factor and foundation for building a competitive national economy over the coming decades. In the global and European context, the impact of the implementation of digital technologies, in particular in the manufacturing sector, has been identified as a strategic priority.

8.16. Plamen Dyankov, Nurdzhan Mustafova, Freight villages as a logistics complex, International scientific refereed online journal with impact factor, Issue 70, June 2020, ISSN 2367-5721, c.127-138

Every commercial organization strives for making a profit. This is the main factor, which influences significantly the organization and the management of their logistics activities. Lately, a series of factors such as globalization of the trade, intensification of the competition, shortening of the product life cycle, increasing reliance on resources, diversification of the production, etc. push companies to look for ways to decrease the time and the expenses, related to the material and information flows through their supply chains. This tendency determines actually the development of the logistics.

8.17. Plamen Dyankov, Svetlozar Stoynoav, Notes on the nature and structure of the organization management information system, International scientific refereed online journal with impact factor, Issue 70, June 2020, ISSN 2367-5721, c.139-144

The system is defined as a set of interconnected, interchangeable and interacting elements, united by the unity of goals and functional integrity, which have integral properties and patterns. It has new properties that none of its constituent elements possess and its functioning has a specific purpose. This property of coordinated joint action between each element of the system is defined as synergism, in which the degree of internal order in the system increases..

3.2. Standardized approaches for building and developing information flows in logistics

Publications with contributions in the specified field

8.1. Plamen Dyankov, Oktai Hussein, Application software technologies in the management of supply chain, International scientific refereed online journal publisher: "Smart ideas – wise decisions" Ltd., Bulgaria, Issue 35, July 2017, ISSN 2367-5721, c.138-143

Logistics processes in the global economy are characterized by increasing complexity, dynamism and distribution and are key challenges for logistics planning and control. Generalized centralized approaches are often limited in their effectiveness due to the large number of logistics objects and parameters to be taken into account. On the other hand, users require the availability of fast, individualized and inexpensive logistics services. All this leads to the need for IT systems that meet the requirements of specific logistics processes.

8.9. Plamen Dyankov, Emil Zechev, Integrating intelligent monitoring systems in rail transport, International scientific refereed online journal with impact factor, Issue 59, July 2019, ISSN 2367-5721, p.44-51/ IF/

A major task solved by transport systems is traffic safety. The specificity of rail transport is the high weight of the railway compositions and the long braking paths, which are commensurate with and surpass the area of natural visibility. For this reason, the safety of the train is not only provided by the subjective factor (driver, dispatcher, traffic supervisor), but also entrusted to technical means which, in the event of failure and misconduct by the operator, cause the traffic to stop despite operating conditions not to impose it. For these technical means it is perceived to have been said to have fail-safe behavior.

8.11. Plamen Dyankov, Modern requirements for education in frame for the intelligent productions, International scientific refereed online journal with impact factor SocioBrains, Issue 62, October 2019, ISSN 2367-5721, c.45-49

So far was turning very much attention of the technical aspects in one smart production while the question about staff of companies was pushed into the background. However, with the increasing digitalization, the impact is expected not only on the machines, the facilities and other physical objects in companies, but change will also be needed in terms of requirements to production staff. The purpose of the article is to propose systematization at the stages in terms of construction intelligent manufacturing systems, to clarify theoretical and practical issues, related to preparation of building frames, development and operation intelligent manufacturing systems, and to indicate the consequences of the introduction of intelligent industries for the industrial market and society

8.12. Lubka Gospodinova, Plamen Dyankov, Mariela Velikova, Intelligent manufacturing systems in engineering, International scientific refereed online journal with impact factor SocioBrains, Issue 63, November 2019, ISSN 2367-5721, c.1-9

Intelligent system is this system, which has its primary purpose, as well as senses and actuators. To achieve your goals she chooses action based on their experience and knowledge and can be self-educated. Intelligent systems are also Computer Systems, who think rationally. The definition is related with artificial intelligence.

8.13. Plamen Dyankov, Administration of logistic structures, International scientific refereed online journal with impact factor, Issue 67, March 2020, ISSN 2367-5721, c.81-90

The logistics system is widely used in the practice of many different company structures. She is considered and built in the high levels of the hierarchy of company management, as a method of material flow management in order to reduce the total cost of production. The logistics system is at the heart of the economic strategy when used as a weapon in competition and is seen as a management logic for the implementation of the planning, allocation and control of financial and human resources

3.3. Possible directions for development of transport management processes

Publications with contributions in the specified field

8.2. Plamen Dyankov, Petar Enev, Risks and losses in the organization of transport production, International scientific refereed online journal with impact factor, Issue 37, September 2017, ISSN 2367-5721, c.51-60

The system of risk minimization methods includes obtaining more information about controlling, risk diversion, risk allocation between participants, reservation of funds, risk transfer, pooling of risks, insurance of risks, division of settlements between partners, use of documented types of international estimates, risk diversification, limitation.

8.5. Plamen Dyankov, Svetlozar Stoyanov - Trends for the future development of the transport in Bulgaria, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, c. 368-378

Transport plays a key role in the development of any modern society. It is a means of economic development and a prerequisite for achieving social and regional cohesion. Bulgaria's transport sector is of utmost importance for enhancing the competitiveness of the national economy and servicing the population.

8.6. Plamen Dyankov - Economic impact of logistics in transport, International scientific refereed online journal with impact factor Ltd., Bulgaria, Issue 41, January 2018, ISSN 2367-5721, c. 335-341

As the world continues to grow as a global market, world trade growth has outstripped growth in both world production and the world economy. Globalization drastically shifts logistical spending, as developing countries already account for over a third of world exports. The expansion of world trade means more demand for logistics services for the delivery of goods.

8.8. Plamen Dqnikov, Stefan Kazakov, Synthesis of solitions in transport testing in MatLab software environment, 54th International scientific conference on information, communication and energy systems and technologies (ICEST 2019) Ohrid, North Macedonia, June 27-29, 2019, Issue 1, ISSN 2603-3267 /online/ p.p. 401-403.

The task is a special type of linear optimization task. It refers to the allocation of quantities between a source and a group of destinations in such a way as to minimize the total cost of this allocation.

8.10. Plamen Dyankov, Plamen Petrov, Intelligent systems in car transport, International scientific refereed online journal with impact factor, SocioBrains, Issue 62, October 2019, ISSN 2367-5721,, c.36-44

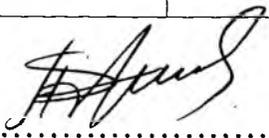
Intelligent transportation systems provide more information to their customers. They provide consumers with faster and more accessible, safer and better quality transport services, cleaner air, greater coherence and cooperation. The main reason for investing in them is to improve transport operations by increasing productivity; saving lives; saving time, costs and energy

8.14. Plamen Dyankov, Transport as an element in international distribution, International scientific refereed online journal with impact factor, Issue 68, April 2020, ISSN 2367-5721, c. 85-92

Choosing the mode of transportation is a major task of distribution management. It should be carefully analyzed as it affects the operational efficiency of the company. The solution to the transportation method is extremely complex because of the large number of choices available, along with the numerous methods for examining and evaluating each one.

Number	Nature of work	All	
		quantity	Volume (page)
	I. Works in the nomenclature specialty		
1.	A/ <i>Monograph</i>	1	119
2.	B/ <i>Textbooks and teaching aids</i>		
	- Textbooks	3	872
	- Tutorials	3	337
3.	C/ <i>Publications in periodicals and scientific reports</i>		
	- Articles	16	
	/8.1.;8.2.;8.3.;8.4.;8.5.;8.6.;8.7.;8.9.;8.10.;8.11.;8.12.;8.13.;8.14.;8.15.;8.16.;8.17./		
	- Reports at scientific sessions and conferences - 8.8.	1	136
	II. Research projects		
	-participation in an international project;	1	
	-participation in a national project;	4	
	-participation in a university project;	6	
	TOTAL	35	1464

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Signature:.....

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