

SUMMARY

The scientific papers of the LtC. Zhivko Dobrev Zhelev, PhD, Chief Assistant in the “Joint Operations and Planning” chair of the “National Security and Defence” Faculty at the National Defence College "G. S. Rakovski" to take a part in a competition for an academic position "Associate Professor" in the “Joint Operations and Planning” chair of the “National Security and Defence” Faculty at the National Defence College "G. S. Rakovski": the field of higher education 9. "Security and Defence": professional field 9.2. "Military Science": PhD program "Organization and Control of the Armed Forces".

I. Scientific and applied scientific contributions:

The presented works can be grouped in the following fields of military science: operation art and information operations. The main scientific contributions from the presented monograph as well as from the publications submitted for review are related to research and analysis of the information impact and the information environment influencing joint operations in contemporary conditions and studying the evolution and development of the operation art and the forms of use of armed forces in modern conditions.

The following **scientific contributions** are highlighted in the presented scientific papers:

A: Information operations.

- On the basis of a comparative analysis of leading authors from different military schools in the field of information impact, technologies and means of information impact and the influence of information on the main operational factors, the combat and the national power are derived;

- Manipulating information impact technologies have been developed to ensure the achievement of the objectives of information operations in the context of strategic communications and joint operations.

B: Operational Art.

- On the basis of a comparative analysis of leading authors from different military schools in the field of military and operative art, the connection between the views on

the operational art, the principles of its implementation and the forms of use of the armed forces are drawn.

The following *applied scientific contributions* can be identified in the presentations:

A: Information operations.

- Opportunities for reconciling lethal and non-lethal effects on the opposing forces, from different components involved in the joint operations, are presented to maximize the effect in different kinds of conflicts while respecting the legal and moral aspects of information operations in the modern environment;

- Determining the ability of the Armed Forces to participate in information operations as a basis for modern operational capabilities that enriches the theory of military art for action in an unstable social environment;

- Reconfirming the link between reconciling the sources of impact on the enemy with the use of manipulative technology in modern military operations, which would make it easier to make reasoned decisions about the use of force in an undefined and dynamic environment;

B: Operational Art.

- Suggested means of introducing opposing forces into misconduct, which has an impact on combat losses and the resources for conducting joint operations;

- Providing a means of achieving a sudden occurrence in the actions of the military formations in order to minimize risk and loss by means of new means of misleading the enemy;

- Explaining the impact of the information impact on the operational factors, this makes it a driving force in decision-making in the planning and conducting of joint operations.

II. Publications.

1. Information operations.

- Information operations and information impact. (monograph)

The monograph was developed with the idea of giving a new look to the use of information operations in the modern security environment. On the basis of this view, the emergence, development and current state of information operations and information impact capabilities in modern society, which is widely applicable in the

modern information age in which conflicts and crises take place under the sign of information wars, are presented.

The implementation of different approaches to information impact significantly contributes not only to the implementation of national and Union policies, but also to the involvement of the armed forces in conflicts and crises. All this raises the need to develop capabilities for information impact, not as "acquisitions", but as a real need to protect national sovereignty and interests.

- The military's capability the republic of Bulgaria for conducting information operations.

The report presents opportunities to develop the capabilities of the Bulgarian Armed Forces for conducting and /or participating in information operations.

- Information operations to counteract rebel movements.

The importance of information operations is determined by the need to win support from the local population, as a basic prerequisite for success in counter-insurgency operations.

- The Information Environment and Contemporary Conflicts.

Changes in the security environment, technological developments and changes in the role and functions of the armed forces require that they operate in a new and dynamic information environment. Conducting operations in this environment determines the need for its evaluation and analysis. The report examines the structure and main elements of the information environment that supports the presentation as a system allows its study and analysis in the conduct of information operations.

- Organizational approach to building capabilities for conducting information operations.

Establish capabilities for conducting information operations by the armed forces of the Republic of Bulgaria is subject to the acceptance of conceptual and organizational approach to their development. The report presents the organizational approach, presents the structure, tasks and responsibilities of the Information Operations Centre of the Armed Forces, which can be establish. It is inherently a strategic level in the planning and conduct of information operations in national format.

- Military Deception, Main Tools of Information Operation.

The report examined the importance and essence of military deception the basic tactics, techniques, procedures and methods for their implementation. Analysis is presented the approaches to achieve military deception in the conflicts of the past ten years.

- Influence Technology in the Modern Information Environment.

The basic manipulative technologies used in information impact in modern conditions. Presented is their applicability and effects that can cause.

- Disinformation in Contemporary Conflicts.

The report presents the essence of disinformation and the means of its dissemination. Its significance has been revealed in recent conflicts and the impact on operations.

- The Information War – Nascence and Development.

The report presents the reasons for the nascence of the information war, its nature and its aims. The forms and directions of informational warfare are presented.

- Security operations - challenges and realities.

The report presents the main tasks and challenges for security operations to reduce the vulnerability of the joint operational forces from the critical use of critical information from the enemy. The report analyses a model for conducting security operations and assessing them.

- Specifics of the information impact in the contemporary information environment.

The article explains the peculiarities of the information impact under contemporary conditions and is directly related to the type of information environment. Acknowledging these peculiarities is the basis for the formation of the approaches to information impact.

- Conceptual approach to establishing capabilities for conducting information operations.

The article analyses the capabilities of the Bulgarian Armed Forces to conduct Information Operations and proposes a conceptual approach to overcome the deficit and building of new capabilities to conduct Information Operations. Overcoming the

shortage of skills in our armed forces in the field of operations is possible by applying a conceptual approach to build new capabilities.

- Electronic warfare as information operation tool.

The article presents an analysis of the possibilities of using the electromagnetic spectrum in armed conflicts and summarizes the objectives, tasks and order of using the information operations in the initial stage of the joint operation.

- Information and national power.

The article presents the emergence and development of the information impact as a component of combat power. Based on which an analysis was made of the prerequisites for the perception of information as an element of national power.

- Information operations and nonviolent revolutions.

The article presents an analysis of the possibilities for the use of information operations in conducting activities in non-violent revolutions. The model presented in the article for implementing information impact on the target groups is essential for success in such initiatives.

- Information operations center - tasks and responsibilities.

Establish capabilities for conducting information operations by the armed forces of the Republic of Bulgaria is subject to the acceptance of conceptual and organizational approach to their development. The report presents the organizational approach, presents the structure, tasks and responsibilities of the Information Operations Center of the Armed Forces, which can be establish. It is inherently a strategic level in the planning and conduct of information operations in national format.

- Leading considerations in the planning of information operations.

In contemporary conflicts, the achievement of operational objectives by joint operational forces is directly related to the degree of information impact. This necessitates the full integration of information activities in the planning and conduct of operations by the Joint Forces. The article presents the main considerations in planning and conducting information operations and their implementation in the activities of the Information Operation Coordination Board.

2. *Operational art.*

- Operational art in contemporary conditions. (textbook)

The textbook offers a contemporary insight into the theory of operative art based on a comprehensive approach to planning operations. It presents the evolution and contemporary dimensions of the operative art with its main concepts, principles and features. The modern dimensions of the main operational factors influencing the planning and conduct of joint operations are analysed.

- Perspective methods for determining combat potentials.

Problems are identified when determining the real combat capabilities. Some of the contemporary developments in this area are presented.

- Fire Support Planning in Joint Operations.

The report presented the structure and main responsibilities of the element of fire support in the headquarters of multinational joint task forces. Clarified the tasks solved in various stages of planning joint fire support.

- Use of the Military Marine Component in Military Misconduct Operation of Joint Operational Forces.

The report presents the essence and content of military deception operations as a tool of information operations. Clarified is consistency in setting goals and degeneration history of deception with interest of the joint operation. Presented are examples of the use of NAVY component in operations of joint task force for military deceptions conducted in conflicts over the past 25 years.

- Arise and development the overviews and principles of the military art to the Napoleonic wars.

The report presents the processes of the origin and development of military science and the principles of the use of troops from Alexander the Great to the Napoleonic wars. The processes of creating and separating the two military science scholars have been popularized as East and West.

- Development of the overviews and principles of the military and operative art from the Napoleonic wars to the Second World War.

The report presents the evolution of overviews on „operations” and the principles of military and operational art from the Napoleonic wars to the end of World War II.

The processes of establishing operational art as part of the military science and the creation of new operational concepts are presented.

- Development of overview and principles of operational art after the Second World War.

The report analyses the development of operational art from the end of World War II to the present day in Russian and Anglo-Saxon military science scholars. The processes of changing the overviews on the essence and content of the operational art, the principles of its implementation and the relationship between principles, concepts and forms of military use are presented.

- Analysis of the influence of environment on the conduct of operations.

The analysis of all the factors creating the environment in the conduct of operations must be arranged and conducted as factors can affect the course of action depending on the individual characteristics of the components involved in the operation. The division of surroundings factors according to their impact will enable a better assessment.

- Analysis of joint operation of Russian armed forces in Syria.

The report offers an analysis of preparing forces forming the groups, conducting operation and achieving goals in a joint military operation by Russian forces in Syria.

- Military science and national interests of Russian federation.

The article presents the link between the realization of national interests and the use of military force as an instrument of the national power of the Russian Federation. The structure of modern military science is analysed in a logical and content sequence.

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LtC.

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