

REVIEWS

From Prof. Dr. Arch. Maria Vulkova Shishmanova

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Doctor of Science 5. Engineering, 5.7. Architecture, Construction and Geodesy - 02.17.09. "Territorial and Landscaping and Urban Planning" Professor - Scientific Degree 4. Natural Sciences, Mathematics and Informatics 4.4. Natural Sciences - 01.08.02. Economic and Social Geography (Regional Development)

For Arch. Hassoon Allawi Hassoon Al-mamoori, enlisted by order of the Rector of NBU "New Bulgarian University" No. 3-rk-48 of 21.11.2016 in the doctoral study of independent preparation for the State Enterprise "Architecture of buildings, structures, facilities and details", New Bulgarian University, Master's Degree, Department of Architecture, Science 5.7. "Architecture, Construction and Geodesy", specialty "Architecture of buildings, structures, facilities and details" with scientific supervisor: Prof. Dr. Arch. Georgi Georgiev, on a dissertation on a topic "**Urbanization and Town Planning of Baquba**" for the award of the educational and scientific degree "Doctor"

The review was prepared on the basis of Order No. 3-PK-16 of 09.10.2019 by the Rector of NBU.

General characteristics of the thesis

The dissertation contains 198 pages, 115 figures, bibliography - 107 sources. The structure of the work consists of an introduction, three chapters, a conclusion, scientific contributions, a list of illustrations - figures, photos and diagrams - 170 pieces, a list of tables - 10 pieces, a bibliography - 52 literature sources (12 electronic and 40 printed). The development is structured properly. In its essence, the author has drawn up a logical model of the topic under study.

The doctoral thesis is provoked by the accumulated urban problems of Bakuba city and its adjoining territory. The doctoral student thoroughly traces urban development and urban development processes through critical analysis, explaining the reasons for the failure of most development plans. Numerous conclusions and proposals are made for improving the city structure - relocation of the center and construction of new architectural elements - museum, hotel, recreation areas and other contributing to the improvement of the quality of service functions of the city.

The structured and protected scientific thesis represents the essence of the dissertation. The work and the autoreferate to it, the published articles and the documents submitted meet the legal and regulatory requirements for doctoral degree protection.

Topicality and importance of the problem under study in scientific and applied science.

The relevance of the work is determined by the topic of the study - analysis of the urban and urban development of the city in time, restructuring of the city, new functional zoning and linking with new transport infrastructure.

The doctoral thesis submitted for review is an in-depth and comprehensive scientific study of these issues and contributes to an approach that would serve as a model for similar research in other cities in Iraq. The dissertation shows the possibilities for development of sustainable development policy of a city suffering from the problems of illegal construction, non-observance of the urban plan, which leads to chaos in the construction.

The significance of the problem under study in scientific and applied science is indisputable. This determines its relevance, but above all the author's approach to solving it. The problems studied have various dimensions - architectural, urban, socio-cultural, economic, environmental, technical, etc.

Formulation of the purpose and tasks of the thesis

The dissertant correctly defines the object, object, scope, purpose and tasks, the method of research, ie. strictly adheres to the requirements for structuring doctoral work.

The main objective is an ambitious formulation - a proposal for a regulatory framework for the development of the territory and the creation of a new urban plan that addresses the problems of the city of Bakuba, formulating the conditions for its successful implementation in the anticipated future growth of the city.

The five tasks assigned are perfectly executed, although they are significantly bulky and difficult in scope.

Degree of knowledge of the status of the problem and correspondence of the literature used.

In his work, arch. Hassoon Al-Mamoori demonstrates an excellent knowledge of the state of the problem, due to the successful selection of a large number of sources used in foreign literature - books, scientific articles, official and specialized sites, architectural plans and developments in the field.

The citations are according to BDS I690: 2011 Information and Documentation and the NBU's Guide for Bibliographic Reference and Citation of Information Resources.

Correctness in developing the thesis and quoting a representative number of authors.

The correct overall study - the development of the city shows the development of urban planning in Iraq from ancient times to the present day. The task is very complex and comprehensive in its nature and contributes to the crystallization of scientific and applied scientific contributions.

Cited sources, such as coverage and diversity, are representative of the present study. Foreign studies are very well interpreted to identify processes, track changes in urban development and adjoining territory, and accordingly identify problems that are correctly and clearly presented by the doctoral student - by assessing both historical and architectural footprints and development potential. this settlement and region was part of ancient civilizations in Iraq.

Presence of grounded and developed theoretical model of the research.

Compliance with the chosen methodology and methodology of research with the stated purpose and tasks of the dissertation.

The previously described model of the study provides an opportunity to interweave different approaches in the research itself, thus obtaining clarity on what the author pursues through analysis, evaluation, synthesis of results, and thus responds to the set goal and tasks. The research method is very short, precise and clearly formulated. The complex approach adopted - analysis of the historical development of the city, critical analysis of literary sources, field observations - including information obtained personally from the author's practical work, methods of comparison and summary, contributes to the positive result in the dissertation.

Through a retrospective, comparative and critical analysis, the dissertation forms an approach that should lead to accurate decisions, which is proved by the end result of the work - concrete and successful proposals for change and improvement of the urban structure. Applies comparison and summary methods. The scientific methods are used alone and in combination, depending on the specifics of the cases in question.

The doctoral thesis outlines planning opportunities in the context of contemporary development. The research methodology chosen by the doctoral candidate corresponds to the set goal and tasks of the dissertation, which influence the formation and functioning of urban and urban development of space.

Making a contribution to the collection and analysis of empirical data.

Architect Hassoon Al-Mamoori has painstakingly collected and analyzed information, both theoretical and practical, in the formation and functioning of the city's structure and surrounding area, the central part, and the outskirts of the city. The topic of the dissertation suggests the possibility of direct empirical research and data. Uses personal monitoring and data collection from local residents, from real estate offices, retrieves up-to-date information about properties and differences in their prices in different neighborhoods.

Contribution Description:

Brief description of the nature and evaluation of the reliability of the material on which the contributions of the dissertation are built.

The research done in the dissertation undoubtedly enriches Iraq's urban development theory and practice. A large amount of diverse information has been collected, processed and systematized, enabling detailed presentation, analysis and summarization of the issues addressed in the dissertation. The PhD student has offered his own analyzes, interpretations, on which he builds the last chapter "Proposal for improving the spatial environment in Baquba". The information and research presented accurately reflect the problems of the topic, and it can be assumed that the contributions of the dissertation can be built on it.

A description of the applicant's contributions and their classification.

A. The practical and practical contribution consists of concrete functional proposals regarding the urban development of Baquba - a new urban center with a proposed location, museum for display and preservation of historical archeological exhibits, hotel and recreation sites on the bank of the river Diyala and other central city service and commercial buildings and facilities required for educational and training activities.

B. In principle, I accept the proposed scientific contributions, but I suggest that, in order to be considered as such, they should be summarized and reformulated as follows:

- Analysis and summarization of programs for solving transport and communication problems in the city center and other areas of Diyala province.
- Analysis of the elements of contemporary Iraqi architecture, with its positive and negative aspects, in order to identify the directions for the future, namely:
 - Return to traditional Arabic forms and language in art and architecture, Egyptian or otherwise, due to its roots in different textures, native roots of cultural life, traditions, customs and local values.
 - Protection of the natural environment and its development (a defining element in the history of Iraqi urban planning).
- Providing processed and sorted data regarding urban development, demonstrating the rapid territorial expansion of Baquba particularly intensively over the past five decades.
- Future planning - new territorial expansion and functional development of the city to be determined by the two rivers (Diyala and Khorasan), the presence of orange gardens, the social-class division of the population (occurring in time), while overcoming the previous violations, but also planning build transport communication and adequate social infrastructure.

The doctoral student proposes new approaches to the challenges of urban planning, and in particular to the processes of planning and managing the urban environment for the preservation of cultural values and those with potential urban structures and spaces, in order to achieve a more appropriate, ecological and higher quality natural habitat.

Assessment of the degree of personal participation of the dissertation in the contributions.

The topic elaborated specifies the object of the research.

The research as well as the research activity are the personal work of the doctoral student. The doctorate is well logically structured, presenting and clearly proving the purpose and objectives of the research. Listed are the contributions of the dissertation. The study and the proposed guidelines for urban fabric restructuring would contribute to building an optimal living environment that exhibits cultural values and natural assets.

The correspondence of the autoreferate with the dissertation

The autoreferate is fully responsible and correctly reflects the results of the dissertation. Its volume is 30 pages and corresponds to the present dissertation in a synthesized form and accurately presents the scope and results of the research. The content follows that of the dissertation - a summary, conclusion, reference to scientific contributions and publications and appearances. It presents an extremely comprehensive scientific study and it meets regulatory requirements. All researches, basic statements, results achieved and scientific contributions of the dissertation are adequately presented.

Evaluation of dissertation publications: number, nature of publications in which they are published.

The publications are two issues, representing and analyzing various aspects of the doctoral student's research topics and contributing to the presentation of its diversity and problems. They have been published in the DIYALA Journal of Engineering Sciences National Academic Scientific Edition in Iraq in 2017 and 2018.

Opinions, recommendations and notes.

The nature of the dissertation is a very in-depth, ambitious and complex research. Arch. Hassoon Allawi Hassoon Al-Mamoori has been able to trace historically urban development in Iraq and to select and bring to practice his views and concrete proposals for the urban development of Baquba. The work is comprehensive, detailed with many dignities, precisely crafted with professionalism and well illustrated, which contributes to its easy adoption and application.

The dissertation is intended to be applied both in practice and in future related research in other cities in Iraq.

He approaches the established practices and decisions in the development of Bakuba city by offering his views and concrete solutions that pave the way to a new, more rational, more modern and sparing living environment.

Arch. Hassoon Allawi Hasun Al-Mamoori reaches the groundwork on the topics explored and forms the future strategy and concept for the reconstruction of urban fabric and urban space.

The precision of the arrangement of work and the logic of dosing texts, illustrations and others make an excellent impression, which makes the work very "easy" to perceive and use in practice.

Recommendations

As a recommendation, I propose to continue my research in this area, focusing on other cities in Iraq, adopting this research approach as a good methodology for obtaining excellent applicable urban structuring and urban development solutions.

My only notes

Are of a formal nature that there are no pages recorded in the content of both the dissertation and the autoreferate. Contributions can be reformulated in a more concise and concise manner. But these notes do not diminish the value of dissertation work.

Conclusion

The qualities of the doctoral dissertation work are in accordance with the requirements of the ZRASRB, its Regulations and the normative documents of the New Bulgarian University in this field. With this dissertation, the doctoral student proves his / her thoroughness in the studied subject, shows theoretical and practically applicable knowledge and results, maturity and opportunities for independent scientific research, and demonstrates the ability to continue his research in this field.

Based on the merits of the presented work - topicality of the topic, correct presentation and interpretation of the information, analyzes made, conclusions and rational proposals, numerous well-selected illustrations - figures, photos and diagrams, significance of the

results, I give a positive assessment of the doctoral student's work and I suggest the Honorable Scientific Jury to award Hassoon Allawi Hassoon Al-Mamoori Doctoral Degree
5.7. Architecture, Construction and Surveying.

Date... 02/12/2019 Signature: