

La Rosa Padrón, R. I., Corona Sonia, A., y Mendiola Osorio, M. (2016). Diseño y dibujo arquitectónico. La Habana: Pueblo y Educación.
La Rosa Padrón, R. I., Corona Sonia, A., and Mendiola Osorio, M. (2016). Design and architectural drawing. Havana: People and Education.

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Recibido: 5 de diciembre de 2018

Aceptado: 10 de febrero de 2019

Among the pedagogical careers studied at the Cuban University is the Bachelor of Education, specializing in Construction, whose mission is to provide comprehensive training to professionals who have to work as teachers in technical and vocational education institutions, with skills that demonstrate its development between being and know-how, and creativity. The study plan "E" corresponding to this modality has included among its disciplines that of Project, Construction and Conservation of Buildings, of vital importance for the career because it prepares the new generations of teachers to face the pedagogical process of the technical and professional education in the specialties of civil construction, masonry and white carpentry, and formwork, with an integrating, systematic, professional and holistic approach given by the design and interpretation of executive technical projects of housing, where the knowledge and skills of the discipline with others of the career are linked like: Applied Mathematics, Applied Physics, Applied Chemistry, Project Management and Project, Construction and Conservation of Civil Works.

Among the subjects that integrate the Project of the discipline, Construction and Conservation of Buildings appears Drawing and Architectural Design, which allows to materialize the skills related to the design of architectural spaces, and hydraulic, sanitary and electrical networks, both from the

geometric point of view as functional of a building of little complexity; representation of orthogonal and axonometric projections of geometric figures and graphic documentation; preparation and interpretation of the written documentation of the project; application of normative documents and characterization of constructive technologies, and the foundation of construction processes, building technologies, design solutions, repair and maintenance of buildings and mitigation measures of environmental impacts. The book *Design and architectural drawing* is used as the basic bibliography for the development of the content of the subject, published by the Editorial People and Education in 2016, where elements of design and drawing are endorsed by works of great value authors for architecture. The work contributes to teachers in technical and vocational education training understand the elements to take into account when designing an architectural space, considering it as an introduction to the general design and a methodology for the representation of the plans in the executive project.

The book, which explains the essential aspects to be dominated by the teacher whose social task is the training of the qualified workforce demanded by Cuban society, is organized into three chapters:

The first, *Drawing and architectural design*, refers to the impact of design on the durability of structures, the aesthetics and the economic aspect, definition of drawings and scales of this in the plane; Special considerations on the use of the international system of units in the design and construction of buildings, use of color in the drawing and type of design. The process of exterior and interior architectural design, stages, and composition, and the systemic approach for the design of architectural spaces and their conceptual, legal, political, social, functional, environmental, economic, technical constructive and formal factors are detailed, which are necessary for the preparation of the student for his professional performance. However, it does not address in depth what is related to labeling and measuring instruments, and technical letters: forms, stroke order and types of letters; necessary content to be able to elaborate with quality the plans of an executive technical project of the work.

In the second chapter, *Plans of the executive project*, it is specified that the plans of the executive project are part of the documentation of the investment and the aspects of the technical documentation are specified. It is based, defined and detailed the elements that make up the plans in perspective of a technical executive project of plant, elevation and cutting, carpentry, structural, installations, stairs,

where design and representation is included, allowing an adequate understanding of the characteristics, functions, parts and the role that the plans play in an executive project as a component of the investment. This information facilitates the students' learning and therefore their preparation, putting them in better conditions for their performance in the work practice and in their future professional life. the second chapter, Plans of the executive project, it is specified that the plans of the executive project are part of the documentation of the investment and the aspects of the technical documentation are specified. It is based, defined and detailed the elements that make up the plans in perspective of a technical executive project of plant, elevation and cutting, carpentry, structural, installations, stairs, where design and representation is included, allowing an adequate understanding of the characteristics, functions, parts and the role that the plans play in an executive project as a component of the investment. This information facilitates the students' learning and therefore their preparation, putting them in better conditions for their performance in the work practice and in their future professional life. An important aspect in this chapter is the methodology to be taken into account for the preparation of the elevation, foundation, slab and floor plans, and the characteristics of the premises of a building according to Cuban standards, the indications and regulations that must be met . As a limitation is that the general requirements of the design are explained, and not the laws and principles that are required in the program of the subject and that are necessary to master to carry out the design of any executive technical project. In addition, the territorial reordering is addressed in a general manner, and the elements of ergonomics and functional organization of the space are not studied in depth.

In the third chapter, Interpretation of plans of the executive project, the authors explain in detail what is related to the housing investment process and the entities involved, specifying the functions of the departments that make up the municipal unit of housing. Another important aspect that is provided in the chapter and that is vital for the training of students is related to the interpretation of blueprints for a housing project, taking into account that every professional in charge of training the skilled workforce in the construction sector not only must know how to make the plan but also needs to know how to interpret it, that is, to know what it is about explaining through its lines and symbols, and the different construction details designed in each of the plans with the current construction standards and regulations.

In addition, it is detailed from an example of an executive housing project for its interpretation, which explains each of the parts and elements of the same where the plans that comprise it and the proposed exercises related to the work of the construction professionals with which the link of theory with practice is achieved and with it the development of professional skills of students.

In general, the information offered in this volume is very useful for the training of new generations of construction teachers of the polytechnic centers and vocational schools of technical and professional education because it allows the updating of the contents referring to the design and architectural drawing, and with it the achievement of the objective of the subject referred to design an executive technical project for a single-family home starting from the principles of architectural and structural design, representing and interpreting the documentation of it, and complying with Cuban standards. All of the above facilitates making decisions about the selection of materials, construction systems and technologies applying experience in the execution of works, compliance with deadlines, optimization of resources, independence and creativity.