

**The Construction in Teaching of
Architecture
Four Examples of Diploma
Works**

The architectural solution of a building is a process integrating knowledge from several disciplines. Each project has certain leaning towards special issues. The understanding of the processes involved in working with others related professions in the creation of architecture is the basic in the architectural designing atelier. Between the reality and the school education there is a gap. In the schools of architecture, mostly the emphasis is put on the design and on the design methods.

Also in the curriculum of our Faculty, especially during the first four years, the block of the construction knowledge is not well transferred into the Architectural designing courses. One can say, that the process of integrating knowledge from several disciplines is visible done, not till then in the last project. Just there the construction is considered as a method to searching an architectural idea. More it appears to be a beginning of thinking of process and generate a dynamic approach in which student can increase his conception with the understanding of the construction.

Some classification of issues help to give a clearer picture of how to discuss a student's approach to the issue of the designing.

The poster shows four examples of diploma works, where the construction is a part of a whole. Each project shows us his own, very different language of architectural design imbedded in the physical attributes of form.

Modern architecture is impossible to imagine separate from construction. The understanding of form, physical attributes, shapes and patterns of structural phenomena of construction should be an integrated part of the process of teaching of architecture, simply because construction is a part of the project as a whole.

Metamorphosis - a Reuse of an Old Industrial Building the Expression of Form versus Constructive Reality

The tectonic of the new solution is fragmentary hidden into the old building, fragmentary extremely expressive joints the painter freedom. The basis of the architectural concept is the knowledge and the faith, that the modern technology offers a fabulous liberation from constructive limitations. But it is the sophisticated construction concept built into the solution, which decides of the architectural form and of the new image of the post industrial building.

(A.Gil, promoter NJ, the project was made in cooperation with Bauhaus Foundation)

Renew of no Man's Land a New Form and Function in an Old Coal Mining Building - the Hidden Expression

The main goal was how to make attractive an old, abandoned industrial building, located on the outskirts of an housing estate. The large timber construction build into the old structure of the mining tower is the central point of the new architectural solution. The three new buildings offer a functional context to the whole conception.

The large timber egg hidden into the old architectural form was build as a model. The conception of the structure, rose and evaluated in a scale 1:100, together with the students' knowledge of the building material and of construction constraints. The teaching method focused on the relationship between designing and hand-on experience.

(T. Brzckki, promoter NJ)

The Japanese Inspiration - a House of Designer of the Things toward an Uninterrupted Envelope

The dominate of rationalization which implies the cost of materials and management of energy resources reinforced the move to the esthetic where, the building facades look like an insulated envelope. The tectonic is hidden, the construction is integrated with the architectural form this was the idea of that little project. The teaching question, was like in the former project, how to diminish the distance between eye and hand. The reply was in the method of designing where the model of the form of the building and of it construction, made in the workshop, created a "transparency" form of innovative housing solution

New Place new Form the Research Station on Mars Form is Highly Integrated with Construction

The increasing possibilities of computer aided design and availability of building materials open up the solutions for none linear architecture. The building of the station is rather like a new model of a car. The aerodynamic performance requires the smoothing out of the exterior form and is an answer to the non-conventional function. The structure in reference to

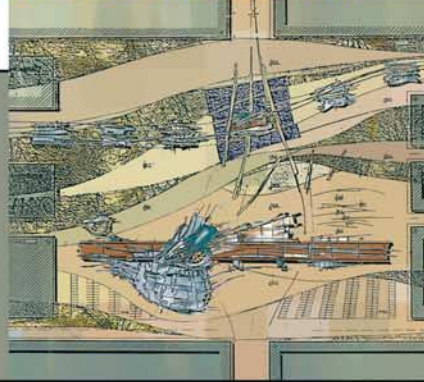
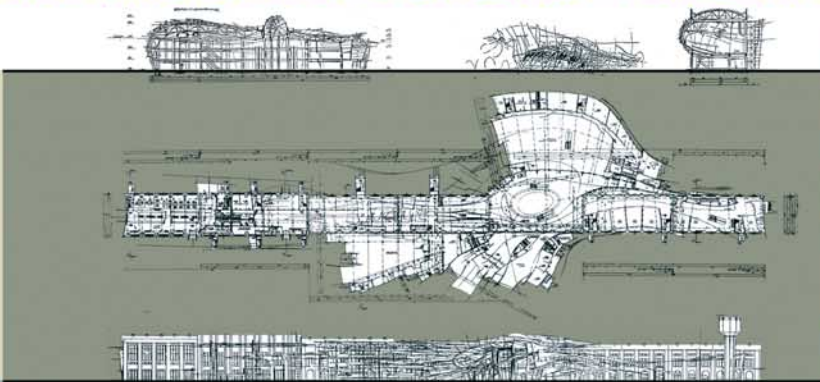
supported load, new material in relation to the new un known conditions and others questions given at the beginning of the project, as important make concerning by the very global aspects of the conception. The technical problems were more leaded on interior structure, like; stairs in relation with up and down within the small space, acoustic, thermal, but also on the problems of aesthetic and well being of the men living in long time isolation.

(W.Zaj' Hczkowski, promoter NJ)

THE CONSTRUCTION IN TEACHING OF ARCHITECTURE - FOUR EXAMPLES OF DIPLOMA WORKS.

Metamorphosis - a reuse of an Old industrial building the expression of form versus constructive reality

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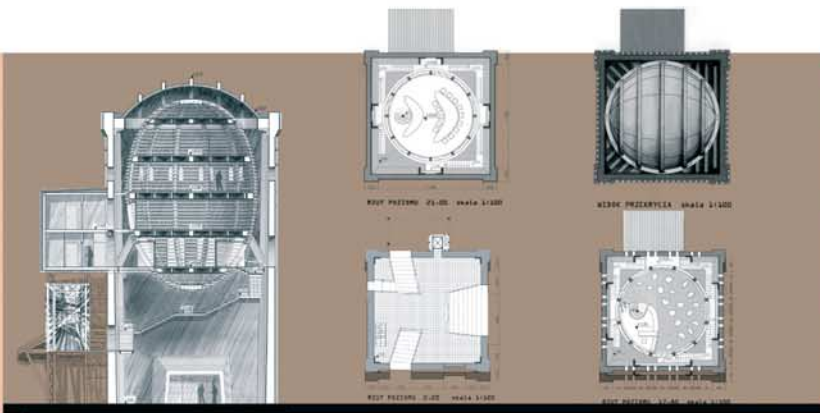
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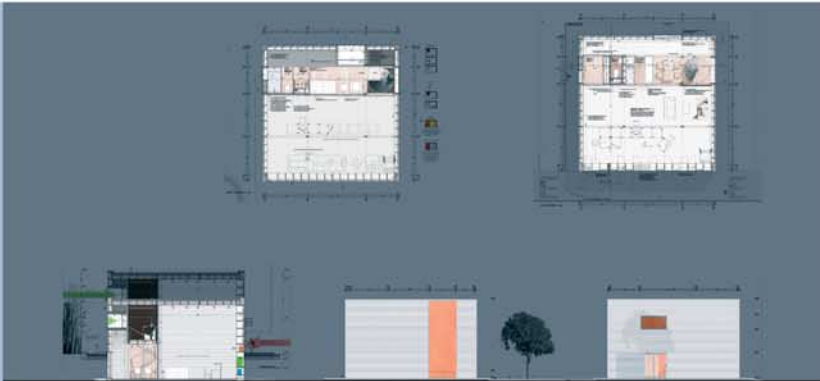
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