

UNIVERSITY BUILDING FOR THE INSTITUTES OF COMMUNICATION, AUTOMATIZATION, DRIVE ENGINEERING AND ENERGY CONSTRUCTION Ulm (Germany)

NEW BUILDING

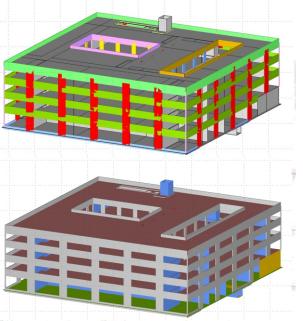
Client:	The Baden-Württemberg State Office of Property and Construction, Ulm
Architects:	The Baden-Württemberg State Office of Property and Construction, Ulm Architectural services LPH 1-4 according to HOAI Spreen Architekten Partnerschaft mbB, München Architectural services LPH 5 according to HOAI
Our services:	Structural design Preliminary design Final design Approval documentation Execution drawings Preparation of contract award Construction supervision Structural fire protection Facade planning Proof of stability of crane fondation
Brief description:	 University buildings for the Institutes of Communication, Automation Engineering, Drive Engineering and Energy Construction of a new departmental building for the university with seminar rooms laboratories, workshops, library, administration offices and a supply centre 4-storey solid construction, built predominantly of reinforced concrete square ground plan with two green inner courtyards base plan 60 m x 60 m construction on hillside, slope from street level to rear over one storey problematic foundations due to an existing large water reservoir flanking the building (buffer tank as a "steel canister") with its base 10 m below the ground level and further, an existing utility duct as concrete pipe, e.g. used for ventilation both of which may not get damaged by the new building poor, "soft" subsoil, therefore the building designed as a "rigid box", i.e. optimization of the load-bearing capacity effect of the floor slab through longitudinal stiff concrete walls load-bearing system formed by slabs and walls as semi-precast elements or concreted on site predominately flat slab construction with wall panels or wall-like beams void formed slabs (Cobiax System) with empty conduits for building services in places slabs subject to additional loads, e.g. in the basement, operational crane runways spacious ground plans with spans often up to 10 m prestigious, self-supporting stairs as a special construction flat roof with photovoltaic system energy-efficient construction using the concrete core as a temperature control, i.e. via pipes containing heat transfer fuid laid within the building slabs for room temperature control via the walls
Completion:	

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Isometrische Darstellungen / 3D-Modelle der Tragwerkspanung mit farblicher Differenzierung der tragenden Bauteile



Pfeifer INTERPLAN CONSULTANTS



