



livMatS Pavilion
The bioinspired pavilion showcases how novel co-design processes combined with advanced robotic fabrication techniques applied to natural materials, can create a unique architecture that is both ecological and expressive. The Pavilion is the result of the successful collaboration of an interdisciplinary team of students from the master's program ITECH at the Faculty of Architecture and Urban Planning at the Stuttgart University and scientists from the Clusters of Excellence "Integrative Computational Design and Construction for Architecture (IntCDC)" in Stuttgart and "Living, Adaptive and Energy-autonomous Material Systems (livMatS)" at the University of Freiburg.

The structural components of the pavilion are robotically wound in a coreless filament winding process using flax fibers, a natural, biodegradable material which is regionally available in Central Europe. The natural fibers and their biological variability presented the researchers with new challenges.

PHOTO CREDITS: Inside:©ICD/ITKE/IntCDC, livMatS Pavilion 2021, Stuttgart University. Cover:©Faculty01, Boris Miklausch(Werkstatt für Fotografie). Introductory event 2021 for students on the Campus Stadtmitte under pandemic conditions. Text page: I.t.r.:©ICD/ITKE/IIGS University of Stuttgart.©IRGE/SI, excursion at Wagenhallen 2017; ©IBK3, Introductory event on the campus Stadtmitte.

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**ARCHITECTURE &
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| <p>INSTITUTE OF ARCHITECTURAL HISTORY (IFAG) www.ifag.uni-stuttgart.de Prof. Dr. phil. habil. Klaus Jan Philipp</p> <p>INSTITUTE OF BUILDING CONSTRUCTION (IBK) www.ibk.uni-stuttgart.de</p> <p>Chair for building construction, building technology and design www.ibk.uni-stuttgart.de/ibk2 Prof. Dipl.-Ing. Martin Ostermann</p> <p>Chair for sustainability, construction and design www.ibk.uni-stuttgart.de/ibk3 Prof. Dipl.-Ing. Jens Ludloff</p> | <p>INSTITUTE OF CONSTRUCTION ECONOMICS (BAUOEK) www.bauoekonomie.uni-stuttgart.de Prof. Dr. sc. tech. Christian Stoy</p> <p>INSTITUTE OF BUILDING TECHNOLOGY AND DESIGN (IBBT) www.uni-stuttgart.de/ibbt Prof. Dipl.-Ing. Peter Schürmann, Prof. Dipl.-Ing. Jürgen Schreiber</p> <p>INSTITUTE FOR COMPUTATIONAL DESIGN AND CONSTRUCTION (ICD) www.icd.uni-stuttgart.de Prof. AA Dipl. (Hons) Achim Menges</p> | <p>INSTITUTE OF DESIGN AND PRESENTATION (IDG) www.uni-stuttgart.de/idg Prof. Dr. sc. tech. Christian Stoy</p> <p>INSTITUTE OF DESIGN AND CONSTRUCTION (IEK) www.uni-stuttgart.de/iek Prof. Dipl.-Ing. José Luis Moro</p> <p>INSTITUTE FOR PRINCIPLES OF MODERN ARCHITECTURE -DESIGN AND THEORY-(IGMA) www.igma.uni-stuttgart.de Prof. Dr. phil. Stephan Trüb</p> | <p>INSTITUTE OF LANDSCAPE PLANNING AND ECOLOGY (ILPO) www.ilpoe.uni-stuttgart.de Prof. Dr. Leonie Fischer</p> <p>INSTITUTE OF SPATIAL CONCEPTIONS AND PRINCIPLES OF DESIGN (IRGE) www.irge.uni-stuttgart.de Prof. Dipl.-Ing. Markus Allmann</p> <p>Chair of Design and Theory of Building Types (IRGE-GEN) www.irge.uni-stuttgart.de/institut/fachgebiet-gebäudelehre Prof. Dipl.-Ing. Sonja Nagel</p> | <p>INSTITUTE OF PUBLIC BUILDINGS AND DESIGN (IÖB) www.ioeb.uni-stuttgart.de Prof. Dipl.-Ing. Alexander Schwarz</p> <p>INSTITUTE OF BUILDING STRUCTURES AND STRUCTURAL DESIGN (ITKE) www.itke.uni-stuttgart.de Prof. Dr.-Ing. Jan Knippers</p> <p>Chair Biobased materials and materials cycles in architecture (BioMat) www.trr141.de Jun. Prof. Dr.-Ing. M.Sc. Eng. Hanaa Dahy</p> | <p>INSTITUTE HOUSING AND DESIGN (IWE) www.iwe-stuttgart.de Prof. Dott. Piero Bruno</p> <p>Chair Sociology of architecture and housing (IWE) www.iwe-stuttgart.de Prof. Dr. phil. habil. Christine Hannemann</p> <p>INSTITUTE OF URBAN PLANNING AND DESIGN (SI) www.si.uni-stuttgart.de</p> <p>Chair Urban Planning and Design (SI/SUE) www.sue.uni-stuttgart.de Prof. Dr.-Ing. Martina Baum</p> | <p>Chair International Urbanism (SI/IU) www.international-urbanism.de Prof. Dr.-Ing. Astrid Ley</p> <p>Chair Landscape Architecture (SI/FG) www.stadtland.studio Prof. Dipl.-Ing. Ulrike Böhm</p> <p>Chair Planning Theory and Practice (SI/TMS) www.si.uni-stuttgart.de/tms/ Prof. Dr. Laura Calbet Elias</p> | <p>CO-OPTED OF FACULTY 02:</p> <p>INSTITUTE OF SPATIAL AND REGIONAL PLANNING (IREUS) www.ireus.uni-stuttgart.de Prof. Dr.-Ing. habil. Jörn Birkmann</p> <p>INSTITUTE OF LIGHTWEIGHT STRUCTURES AND CONCEPTUAL DESIGN (ILEK) www.ilek.uni-stuttgart.de Prof. Dr.-Ing. M.Arch.Lucio Blandini</p> |
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FACILITIES

From day 1 students work in small groups in workshops under the individual supervision of experienced architects. This form of study perfectly complements the teaching provided in lectures, seminars and requires students to play an active role in projects.

All students are free to use:

- the Faculty library, which has a huge selection of journals and current literature.
- the »casino IT« computer pool with fully equipped computer work stations, lending facilities, training/tutorials, experimental lab, virtual reality system, virtual acoustics and plot service.
- the Faculty workshops for analogue and digital construction of architectural models, wood and metal construction, sculpturing and photography and the »RoboLab« for producing computergenerated prototypes and materials systems.

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| FACULTY LIBRARY <i>K1, Room: 5.03 - 5.09</i> | PROTOTYPE CONSTRUCTION WORKSHOP <i>K1, Room: 2.02</i> |
| CASINO IT CAAD LAB <i>Geschwister-Scholl-Str. 24 D</i> | TEST LAB <i>Breidscheidstr. 2, Room: -1.01</i> |
| ANALOGUE MODEL CONSTRUCTION WORKSHOP <i>K1, Room: 2.03 - 2.04</i> | METAL WORKSHOP <i>Breidscheidstr. 2, Room: -1.037, -1.085, -1.087</i> |
| DIGITAL MODEL CONSTRUCTION WORKSHOP <i>K1, Room: 1.01 - 1.04</i> | ARCHITECTURAL PHOTOGRAPHY WORKSHOP <i>K1, Room: 1.06 - 1.07</i> |
| ROBOLAB <i>K1, Room: 2.01 - 2.02</i> | SALES OF MATERIALS <i>K1, Room: 1.04</i> |

THE FACULTY

The study of architecture in Stuttgart goes back to the 19th century. In the early 20th century the »Stuttgart School« established new standards in both innovative and conventional building. After the Faculty was re-established in 1946 this heritage was revived and realigned to explore and pursue modern developments in architecture. Stuttgart has one of the biggest and most prestigious faculties of architecture in Germany – 16 institutes, headed by prominent experts in their field, supported by a broad-based team of academics, teaching staff, visiting lecturers and guests. The Faculty provides its students with a wide spectrum of teaching with the distinctive combination of architecture and urban planning



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ARCHITECTURE & URBAN PLANNING
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M.SC. »ARCHITECTURE AND URBAN PLANNING«

AT THE UNIVERSITY OF STUTTGART

Of all the arts architecture and urban planning are the most public. Urban planners and architects have the complex and responsible task of designing a built environment which incorporates beauty and diversity to create a liveable future. They respond to economic, social and technical change, developing visions and plans for the world of tomorrow. Their point of departure is existing building stock; their objective is to find viable solutions which take account of all the parameters.

The creative design process is at the heart of this study program. Students are taught a wide spectrum of subjects: construction, urban - design and planning, presentation and design, principles of building technology, architecture/planning history and theory, and social and economic principles.

The architecture and urban planning study program generally leads to a Masters degree. This allows to further the studies in the frame of a doctoral research. It also allows the holder to be admitted to the Chamber of German Architects, an essential requirement to practices as an architect or urban planner. Students aspiring to a career as an independent architect or urban planner must apply to the master's program. A faculty commission will decide whether the applicant has the necessary subject-specific qualification on the basis of the documents submitted with the application. The final element of the master's program consists of the master's thesis, which is generally completed in the fourth semester. In their master's thesis students must demonstrate their ability to provide solutions within a creative design process. The basis for this will be broad-based discussion of aesthetic concepts, technical innovation and the significance of ecological and economic issues and will be laid during the first three semesters in projects and seminars to be selected by the students themselves. Students are also required to carry out one project and take one seminar in a field which has relevance to that of their master's thesis.

Applicants to the master's program must have a bachelor's degree from a university or institute of higher education. Experience abroad is also desirable; this is expressly promoted through the Bachelor (International) at the Faculty of Architecture and Urban Planning in Stuttgart. Decisions on admissions to the bachelor's degree program will be taken by a faculty commission on the basis of the application. The first two years consist largely of lectures and exercises which will give students a sound basis for subsequent semesters. In the frame of first design projects they will also begin to acquire skills in developing solutions to complex tasks. The third year consists of largely autonomous project-based study, in fields chosen by the student. At this comparatively early stage students can thus pursue lines of study which match their own interests and skills and which can be reflected in their choice of subject for the bachelor dissertation.

STUDY PROGRAM

M.SC. »INTEGRATIVE TECHNOLOGIES AND ARCHITECTURAL DESIGN RESEARCH (ITECH)«

The ITECH masters program (M.Sc.) focuses on the science and research into new drafting methods and technologies. It is designed to appeal to architects, engineers and scientists (B.Sc.) who wish to work in a multidisciplinary international research environment.

M.SC. »INTEGRATED URBANISM AND SUSTAINABLE DESIGN (IUSD)«

The IUSD masters program (M.Sc.) enables students to specialise in international urban planning. It seeks to train experts and decision-makers who will be involved in developing holistic solutions for the ecological, cultural and social problems caused by the rapid urbanization processes and social transformations globally.

SPECIALIZATION URBAN PLANNING

The prospects in the occupational field of architecture and urban planning is increasingly characterized through the evidence of international and intercultural competences. The Faculty actively encourages students to spend a semester at one of over 100 partner universities abroad and this can be incorporated into the student's individual course of study. Moreover, the faculty awards the certificate Bachelor (International+) in addition to the Bachelor's certificate to students that have conducted a design studio in the international context and studied or worked abroad during their studies.

M.SC. »HEALTHCARE REAL ESTATE MANAGEMENT (HREM)«

The HREM masters program (M.Sc.) is the ideal platform for exploring the complexity and manifold facets of healthcare real estate, notably functional, technical and practical aspects. The teaching staff are acknowledged experts in their disciplines, also giving students insight into the practical application of the teaching content.

RESEARCH

The Stuttgart Faculty has a long tradition of research. Building on fundamental research in architectural and urban history, current research addresses the structures and manifestations of societies, urban and natural environments and how they interact frequently in the context of interdisciplinary and international collaboration. Master's graduates can continue an academic career and go on to acquire a doctorate in engineering sciences (Dr.-Ing.) and a doctorate in philosophy (Dr.-Phil.).

For any further information and dates please visit our websites:

www.f01.uni-stuttgart.de